# DENON

Hi-Fi AV Surround Amplifier

# **SERVICE MANUAL**

# MODEL AVC-2530

# **AV SURROUND AMPLIFIER**





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NIPPON COLUMBIA CO., LTD.

# **SPECIFICATIONS**

**Audio Section** 

(Power amplifier)

Rated output: (All properties shown are

only for the power amplifier stage.)

Load Impedance:

Front:

Rear:

Center:

Front: 6 to 16 ohms 6 to 16 ohms Center: 6 to 16 ohms Rear:

80 W

80 W + 80 W

25 W + 25 W

(Pre-amplifier) Line input (Each line input - FRONT PRE OUT)

Input sensitivity/impedance: Frequency response:

150 mV/47 k ohms

10 Hz to 50 kHz: ±3 dB (BYPASS mode) 5 Hz to 100 kHz: +0, -3dB (CD DIRECT)

Tone control range:

±10 dB at 100 Hz BASS: TREBLE: ±10 dB at 10 kHz 92 dB (BYPASS mode)

Signal-to-noise ratio

94 dB (CD DIRECT)

Distortion factor:

0.01% 1 kHz 1 V (BYPASS mode)

Phono equalizer (PHONO input – REC OUT)

RIAA deviation:

±1 dB (20 Hz to 20 kHz)

Signal-to-noise ratio:

74 dB (A weighting, with 5 mV input)

Rated output / Maximum output:

150 mV/8 V 0.03% (1 kHz, 3 V) Distortion factor:

Video Section

Standard video jacks

Input and output level/impedance:

Frequency response:

1 Vp-p/75 ohms 3 Hz to 6 MHz + 0, -3 dB

S-video output jacks

Input and output level/impedance:

Y (brightness) signal: 1 Vp-p/75 ohms C (color) signal: 0.286 Vp-p/75 ohms

Frequency response:

Y (brightness) signal: 3 Hz to 8 MHz +1, -3dB C (color) signal: 10kHz to 8 MHz +1, -3dB

General

Power supply:

AC 230 V, 50 Hz

Power consumption:

250 W

Maximum external dimensions:

434 (W) × 161 (H) × 421 (D) mm (17-3/32" × 6-11/32" × 16-37/64")

(20 Hz to 20 kHz 8 ohms 0.05% T.H.D.)

(20 Hz to 20 kHz 8 ohms 0.05% T.H.D.)

(1 kHz, 8 ohms, 0.5% T.H.D.)

PHONO (MM): 2.5 mV / 47 kohms

Weight:

12.7 kg (28 lbs 1 oz)

Remote control unit

System remote control with learning function

RC-163:

Total buttons:

62

**DENON** system code

DAT: CD player: Cassette deck: 8 buttons 8 buttons 8 buttons 8 buttons

TUNER: 2 buttons AVC-2530 fixed codes: 38 buttons

Learning buttons

VDP:

System call buttons: 3 (maximum of 10 codes per button)

Program - AMP: 14 buttons - AV: 58 buttons

Maximum total: Batteries:

35 codes R6P/AA Type (two batteries)

External dimensions: 70 (W)  $\times$  215 (H)  $\times$  18 (D) mm (2-3/4"  $\times$  8-15/32"  $\times$  45/64")

Weight:

170 g (Approx. 6 oz) (including batteries)

<sup>\*</sup> For purposes of improvement, specifications and design are subject to change without notice.



- Avoid high temperatures
   Allow for sufficient heat dispersion when
- installed on a rack. Vermeiden Sie hohe Temperaturen Beachten Sie, daß eine zureichende Luftzin kulation gewährleister wird, wenn das Gerät auf ein Regal gestellt wird.
- Éviter des températures élevées Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère.
- . Evitate di esporre l'unità a temperature aite. Assicuratevi che ci sia un'adegueta disper-
- sione del calore quando installate l'unità in un mobile per componenti audio. Evite aitas temperaturas Permite la suficiente dispersión del calor cuendo está instalado en la consola.
- Vermiid hone temperaturen. Zorg voor een degelijk hitteafvoer indien het apparaat op een rek wordt geplaatst.
- Undvik högs temperaturer.
   Se till att det tinns möjlighet till god värmeavledning vid montering i att rack.
- e Evite temperaturas aitas Conceda suficiente dispersão de calor quando o equipamento for instalado numa



- · Handle the power cord carefully.
- Hold the plug when unplugging the cord.

  Gehen Sie vorsichtig mit dem Netzkabel Halten Sie das Kabel am Stecker, wenn Sie
- den Stecker herausziehen.

  Manipuler le cordon d'alimentation avec
- Tenir la prise lors du débranchement du
- Manneggiate II filo di alimentazione con
- Agite per la spina quando scotlegate il cavo dalla presa. Maneje el cordon de energia con cuidado. Sostenga el enchufe cua
- ordón de energia. · Hanteer het netsnoer voorzichtig. Houd het snoer bij de stekker vast wanneer deze moet worden aan- of losgekoppeld.
- Hantera nátkabeln varsamt. Håll i kabeln når den kopplas från el-
- urtaget. Manuseie com cuidado o fio condutor de
- Segure a tomada ao desconectar o fio.



- Halten Sie das Gerdt von Fauchtigkeit. Wasser und Staub fern.
  Protéger l'appareil contre l'humidité, l'eau
- et la poussière.
- Tenete l'unità lontana dall'umidità, dall'acque e dalla poivere. Mantenga el equipo libre de humedad.
- agua y polvo. Last geen vochtigheid, water of stof in het
- apparant binnendringen Utsätt inte apparaten för fukt, vatten och
- Mantenha o aparelho livre de qualquer umidade, água ou poeira.



- Unplug the gowar cord when not using the set for long periods of time. Wenn das Gerät eine längera Zeit nicht
- verwendet werden soll, trennen Sie das Nerzkahel vom Netzstacker
- que l'appareil n'est pas utilisé cendent de
- longues páriodes. Disinnestate il filo di alimentazione quando avete l'intenzione di non usare il filo di alimentazione per un lungo periodo di
- tempo. Desconecte al cordón de energía cuando
- no utilice el equipo por mucho tiempo. Neem altijd het netsnoer uit het stopkor takt wanneer het apparaat gedurende een lange periode niet wordt gebruikt.
- kommer att användas i lång tid.
- Desligue o fio condutor de força quando o aparelho não tiver que ser usado por um longo período.



- Do not obstruct the ventilation holes.
- Die Belüftungsöffnungen dürfen nicht ver-
- Ne pas obstruer les trous d'aération.
- Non concite i fori di ventilazio
- Täpp inte till ventilationsoppningarna · Não obstrua os orificios de ventilação
- · Ta inte isär apparaten och försök inte bygga om den

andere wijze modifiëren

. Do not lat foreign objects in the set.

· Keine fremden Gegenstande in das Gerat

kommen lassen.

Ne gas laisser des objets etrangers dans

E'importante che nessun oggetto è inserito

· No deje objetos extraños dentro del

. Laat geen vreemde voorwerpen in dit

apparaat vallen.

Se till att främmande föremål inte tränger

Não deixe objetos estranhos on aparelho

Do not let insecticides, benzene, and thin

Benzin oder Verdünnungsmitteln in Be

Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil.

Assicuratevvi che l'unità non venga in contatto con insetticidi, benzolo o solventi.

No permita el contacto de insecticidas.

gasolina y diluyentes con el equipo. Last geen insektenverdelgende middeten, benzine of verfverdunner met dit apparaat

in kontakt komen. Se till att inte insektsmedel på apraybruk,

Não permita que inseticidas, benzina o dissolvente entrem em contacto com o

bensen och thinner kommer i kontakt

per come in contact with the set.

rührung Kommen.

apparatens hölie.

all'interno dell'unità.

in i apparaten.

· Never disassemble or modify the set in any

Versuchen Sie niemals das Gerät auseinan-

d'une manière ou d'une autre.

Non smontate mai, ne modificate l'unità in

Nunca desarme o modifique el equipo de

der zu nehmen oder auf jegliche Art zu

Ne jamais démonter ou modifier l'appareil

ninguna manera.

Nooit dit apparaat demonteren of op · Nunca desmonte ou modifique o aparelho

NUR FÜR EUROPÄISCHE MODELLE

DENON Electronic GmbH Halskestraße 32 4030 Ratingen 1

Erklärt als Hersteller/Importeur, dzß das in dieser Bedienungsanleitung beschriebene Gerät den Technischen Vorschriften für Ton- und Fernseh-Rundfunkempfänger nach der Amtsblettverfügung 868/1989 (Amtsblatt des Bundesministers für Post und Telekommuniketion vom 31. 8.

### . FOR UNITED KINGDOM MODEL ONLY

### CONNECTING THE MAINS PLUG:

Fit a proper mains plug to the mains lead of this equipment. If a 13 amp (8S1363) plug is used, a 5 amp fuse must be fitted. The 13 amp fuse supplied in a new plug must NOT be used. If any other type of plug is used, a 5 amp fuse must to fitted either in the plug or adaptor

### IMPOUVANT

The wires in the mains lead are coloured in accordance with the

following code: Brown: Live As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plup, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured BROWN must be connected to the

terminal which is marked with the letter L or coloured red.

DO NOT MAKE ANY CONNECTION TO THE LARGER PIN MARKED WITH THE LETTER E OR BY THE SYMBOL + OR COLOURED GREEN OR GREEN-AND-YELLOW

Disconnect the mains plug from the supply socket when not in use.

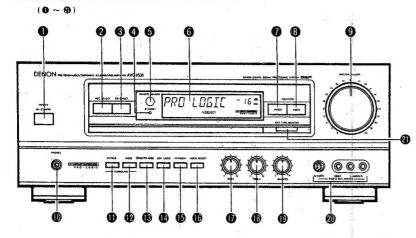
- · We greatly appreciate your purchase.
- · Read these operating instructions carefully to obtain the best performance and a long, trouble-free life from this amplifier. Be sure to keep these operating instructions for future reference.
- Wir danken Ihnen für den Kauf dieses Gerätes.
- Bitte lesen Sie die Bedienungsanleitung sorgfältig durch, damit Sie schnell mit diesem Gerät vertraut werden und seine Leistung voll ausnutzen können. Sie tragen damit auch zu einer langen und problemlosen Lebensdauer Ihres Gerätes bei. Bitte bewahren Sie diese Bedienungsanleitung zum späteren Nachschlagen auf.
- Nous yous remercions de l'achat de cet amplificateur.
- Prière de lire attentivement ce mode d'emploi afin d'obtenir la meilleure performance et une longue durée de vie sans problème de cet amplificateur. S'assurer de conserver ce mode d'emploi pour s'y référer ultérieurement.
- · Apprezziamo veramente il fatto che avete acquistato questo componente.
- Leggete questo libretto delle istruzioni attentamente per ottenere le migliori prestazioni di lunga durata da questo amplificatore. Assicuratevi di tenere questo libretto delle istruzioni in un luogo sicuro per eventuale riferimento futuro.
- · Le estamos sinceramente agradecidos por su compra.
- A fin de aprovechar plenamente las características del amplificador y disfrutar del mismo por mucho tiempo, lea detenidamente este manual de instrucciones. Guárdelo en un lugar seguro para consultas futuras.
- · Wii appreciëren uw aankoop zeer.
- Lees deze gebruiksaanwijzing zorgvuldig door om optimale resultaten met deze versterker te bereiken en verzekerd te zijn van een lange probleemloze levensduur van het toestel. Wij verzoeken u deze gebruiksaanwijzing goed te bewaren voor latere naslag.
- . Vi tackar dig för ditt val.
- Ta tid på dig för att läsa igenom bruksanvisningen så att du kan utnyttia förstärkaren på bästa sätt och försäkra dig om lång, problemfri användning. Spara bruksanvisningen som referens i framtiden.

"SERIAL NO.

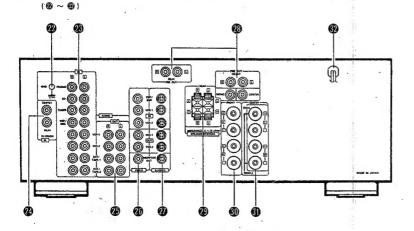
PLEASE RECORD UNIT SERIAL NUMBER ATTACHED TO THE REAR OF THE CABINET FOR FUTURE REFERENCE"

ω Ö

# FRONT PANEL / FRONTPLATTE / PANNEAU AVANT / PANNELLO ANTERIORE PANEL FRONTAL / VOORPANEEL / FRAMSIDA



# REAR PANEL/RÜCKWAND/PANNEAU ARRIERE/PANNELLO POSTERIORE PANEL TRASERO/ACHTERPANEEL BAKSIDA



# 1 BEFORE USING

Read the following cautions carefully before using the amplifier:

- Be sure to unplug the power cord and disconnect other cords connecting the amplifier to other audio units before moving the amplifier to prevent damaging or short-circuiting the cords.
- Before turning on the power switch
   Check again to make sure that all connections are correct and that
- there are no problems with the connection cords. Be sure to turn the power STANDBY before disconnecting or connecting cords.
- Retain the operating instructions
   After reading this manual, store it in a safe place.
- The illustrations used in this manual may differ somewhat from the actual amplifier.

# 1 VOR DER INBETRIEBNAHME

Bitte lesen Sie die folgenden wichtigen Hinweise für die Inbetriebnahme des Verstärkers sorgfältig durch:

- Transport des Gerätes Entfernen Sie vor jedem Transport das Netzkabel aus der Steckdose und ziehen Sie alle anderen Anschlußkabel vom Verstärker ab, um Kurzschlüße und Beschädigungen der Kabel zu vermeiden.
- Vor dem Einschalten der Stromversorgung Pr
  üfen Sie alle Verbindungen auf korrekten Anschluß, damit es keine Probleme mit den Verbindungskabeln gibt. Schalten Sie die Strom-
- versorgung auf Wartestellung (STANDBY), bevor Sie Kabel einstecken oder abziehen.
- Aufbewahrung der Bedienungsanleitung
  Diese Anleitung sollte nach dem Durchlesen an einem sicheren Ort
  aufbewahrt werden.
- Die Abbildungen in dieser Anleitung k\u00f6nnen etwas von dem Aussehen des Verst\u00e4rkers abweichen.

# 1 AVANT L'UTILISATION

Lire attentivement les points suivants avant d'utiliser l'amplificateur:

Afin d'éviter d'endommager ou de mettre en court-circuit les cordons de connexion, s'assurer de débrancher le cordon d'alimentation et les autres cordons de connexion de l'amplificateur aux autres appareils audio avant de déplacer l'appareil.

Avant de mettre l'appareil sous tension
 Vérifier à nouveau que toutes les connexions sont correctes et qu'il

n'y a pas de problème avec les cordons de connexion. S'assurer de mettre le commutateur de veille (STANDBY) sur la position d'attente avant de connecter et de déconnecter les cordons de connexion.

• Conserver ce manuel dans un endroit sûr

- Après l'avoir lu, conserver ce manuel dans un endroit sûr.
- Les illustrations dans ce manuel sont données à titre explicatif et peuvent être différentes par rapport à cet amplificateur.

# 1 PRIMA DELL'USO

Leggete le seguenti precauzioni attentamente prima di usare l'amplificatore:

• Sociamento dell'unità modo di attesa accessione (STANDBY) prima di scollegare o

 Spostamento dell'unità Prima di spostare l'amplificatore, assicuratevi di scotlegare il filo di alimentazione e gli altri fili che collegano l'amplificatore con i componenti audio per prévenire danni o corto circuiti dei fili.

- Prima di accendere l'interruttore di accensione Assicuratevi che tutti i collegamenti siano corretti e che non ci siano alcuni problemi con i cavi di connessione. Assicuratevi di impostare il
- collegare i fili.

  Conservate questo libretto delle istruzioni
  Tenete questo libretto in un luogo sicuro dopo averlo letto attenta-
- Le illustrazioni usate in questo libretto possono differire leggermente dal disegno effettivo dell'amplificatore.

# 1 ANTES DE USAR LA UNIDAD

Antes de usar el amplificador, lea detenidamente las siguientes recomendaciones:

Traslado del equipo
Para evitar contocircuitos o daños a los cables de conexión,
asegurese de desenchufar el cable de alimentación y de desconectar
todos los cables usados para la conexión del amplificador a otros
sistemas de audio, antes de trasladar el amplificador

Antes de conectar la alimentación
 Asegúrese de que todas las conexiones hayan sido efectuadas de manera correcta y que los cables de conexión no presenten

problemas. Ponga siempre el interruptor de alimentación en la posición STANDBY antes de desconectar o conectar los cables de conexión.

Conserve este manual de instrucciones

Una vez que haya leido este manual, guárdelo en un lugar seguro.

Las ilustraciones usadas en este manual pueden diferir ligeramente del aspecto real del amplificador.

# 1 VOOR GEBRUIK

Lees de volgende waarschuwingen zorgvuldig door voordat u de versterker in gebruik neemt:

• Verplaatsen van het toestel

BY voor u de verbindingssnoeren losmaakt of aansluit.

Trek het netsnoer uit en verwijder andere snoeren die de versterker op endere geluidstoestellen aansluiten voor u de versterker verplaatst om schade of kortsluiting aan de snoeren te voorkomen.

 Voor u de spanningsschakelaar inschakelt.
 Kontroleer nogmaals of alles korrekt is aangesloten en dat er geen problemen zijn met de verbindingssnoeren. Zet de spanning STAND- Bewaar de gebruiksaanwijzing
Berg deze handleiding op een veilige plaats op, nadat u ze heeft

 De afbeeldingen die in deze handleiding staan dienen ter referentie en kunnen enigszins afwijken van de echte versterker.

# 1 FÖRE ANVÄNDNING

Läs noga igenom följande punkter innan du använder förstårkaren:

När du flyttar utrustningen

Var nogs med att dra ur nätkabeln och koppla loss alla andra kablar mellan förstärkaren och annan audioutrustning innan du flyttar förstärkaren. Detta är nödvändigt för att skydda förstärkaren mot skador eller kortslutning av kablarna.

Innan du slår på strömbrytaren.
 Kontrollera en extra gång att alla anslutningar är rätt gjorda och att

inget är fel med kablarna.

Var noga med att ställa strömbrytaren i beredskapsläge (STANDBY) innan du tar loss ciler ansluter några kablar.

Spara bruksanvisningen

Lägg bruksanvisningen på en säker plats när du har läst den.

 Bruksanvisningens bilder kan skilja sig en aning från din förstärkarmodell. Using this amplifier or other electronic equipment containing microprocessors simultaneously with a tuner or TV may result in noise in the sound or picture.

If this should happen, take the following steps:

- Install the amplifier as far as possible from the tuner or TV set. Keep the antenna lines of the tuner or TV as far as possible from the amplifier's power cord and connection cables.
- . This problem is especially frequent when using indoor antennas or 300 ohm feeder lines. We recommend using outdoor antennas and 75 ohm coaxial cables.
- · For cooling purposes, do not place another AV component directly on ton of the amplifier. Be sure to leave a space of at least 10 cm.

### WICHTIGE HINWEISE ZUR INSTALLATION

Bei der gleichzeitigen Benutzung dieses Verstärkers (oder sonstiger elektronischer Geräte mit einnebauten Mikronrozessoren) und eines in der Nähe aufgestellten Tuners oder Fernsehgeräts können Ton- oder Bildstörungen auftreten.

Sollte das geschehen, gehen Sie wie folgt vor:

- Stellen Sie den Verstärker so weit entfernt wie mönlich vom Fernsehgerät auf.
- Verlegen Sie die Antennenkabel des Tuners oder Fernsehgerätes so welt wie möglich von den Stromversorgungskabeln des Verstärkers und den Verhindungskabele entfarnt.
- Dieses Problem tritt besonders häufig bei der Benutzung von Innenantennen oder Antennenkabeln mit 300 Ohm Impedanz auf. Wir empfehlen die Benutzung von Außenantennen und Koaxialkabein mit 75 Ohm Impedanz.
- · Aus Kühlungsgründen sollten Sie keine anderen audiovisuellen Komponenten direkt auf den Verstärker stellen. Vergewissern Sie sich, daß der Abstand zu anderen Geräten mindestens 10 cm beträgt.

# PRECAUTIONS D'INSTALLATION

L'utilisation simultanée de cet amplificateur avec d'autres appareils électroniques à microprocesseur avec un tuner ou un téléviseur peut produire des parasites dans le son ou l'image.

Si cela se produit, prendre les mesures suivantes:

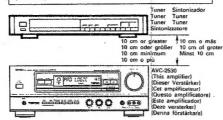
- Installer l'amplificateur aussi loin que possible du tuner ou du
- A Floinner les câbles d'antenne du tuner ou du téléviseur aussi loin que possible du cordon d'alimentation et des câbles de connexion de l'amplificateur.
- Ce problème est fréquemment rencontré lors de l'utilisation d'antennes intérieures ou de descentes d'antenne de 300 ohms. L'utilisation d'antennes extérieures et de câbles coaxiaux de 75 obres est
- · Pour permettre la dissipation de la chaleur, ne pas placer un autre appareil audio/vidéo directement sur le dessus de l'amplificateur. S'assurer de laisser un espace d'au moins 10 cm.

### PRECAUZIONI RIGUARDANTI L'INSTALLAZIONE

L'uso di questo amplificatore o di un altro componente elettronico che contiene dei microprocessori insieme ad un sintonizzatore o un televisore potrebbe causare rumore nel suono o nell'immagine In tal caso, procedete come segue:

- Installate l'amplificatore il più lontano possibile dal sintonizzatore o dal televisore.
- · Tenete i fili per l'antenna del sintonizzatore o del televisore il più lontano possibile dal filo di alimentazione e dai cavi di connessione dell'emplificatore
- · Questo problema è particolarmente comune quando si usano delle antenne interne o dei cavi alimentatori di 300 ohm. Si raccomanda l'uso di antenne esterne e di cavi coassiali di 75 ohm.
- · Per motivi di raffreddamento dell'unità, non collocate mai un altro componente AV direttamente sopra l'amplificatore. Assicuratevi di lasciare uno spazio di almeno 10 cm.

A note on stacking / Ein Hinweis zum Aufeinanderstapeln von Komponenten / Remarque sur la juxtaposition / Nota riguardante la sovrapposizione dei componenti / Apilamiento / Een opmerking i.v.m. het op elkaar plaatsen van de toestellen / Tänk på följande vid placeringen



### PRECAUCIONES DURANTE LA INSTALACION

El uso simultáneo de este amplificador o de otros equipos electrónicos que contengan microprocesadores, con un sintonizador o televisor, podrá ser causa de interferencia en el sonido o imagen. Si esto sucediera, tome las siguientes medidas:

· instale el amplificador tan lejos como sea posible del sintonizador o televisor.

- Mantenga los cables de antena del sintonizador o televisor lo más lejos posible del cable de alimentación y cables de conexión del amplificador.
- · Este problema será especialmente frecuente al usar antenas interiores o cables alimentadores de 300 ohmios. Le recomendamos emplear antenas exteriores y cables coaxiles de 75 ohmios.
- · A fin de mantener una buena ventilación, no coloque otro componente AV directamente encima del amplificador. Asegurese de dejar un espacio de por lo menos 10 cm.

### 2 VOORZORGSMAATREGELEN VOOR INSTALLATIE

Bij gebruik van deze versterker of andere elektronische apparatuur die microprocessors bevat, terwijl tegelijk ook een tuner of TV aan staat, kunnen storingen in het geluid of het beeld optreden.

Neem de volgende maatregelen als dit gebeurt: • Installeer de versterker zo ver mogelijk uit de buurt van de tuner of

- Houd de antennedraden van de tuner of de TV zo ver modelijk uit de buurt van het netsnoer en de verbindingskabels van de versterker-
- Dit probleem stelt zich vooral bij gebruik van binnenantennes of voedingsdraden van 300 ohm. Wij raden u aan gebruik te maken van buitenantennes en koaxkabels van 75 ohm.
- · Zet geen andere audio/video-komponent direkt bovenop de versterker met het oog op afkoelen van de apparatuur. Wij raden u aan een

# FÖRSIKTIGHET VID INSTALLATIONEN

När den här förstärkaren eller annan elektronisk utrustning, som innehåller mikroprocessorer, används i närheten av en tuner eller TV kan ljud- eller bildstörningar uppstå.

Gör på följande sätt om detta händer:

- Placera förstärkaren så långt från tunern eller TV:n som möjligt. Dra tunerns eller TV:ns antennkablar så långt som möjligt från
- förstärkarens nät- och anslutningskablar. • Problemet uppstår särskilt när inomhusantenner eller 300 ohms matarkablar används. Vi rekommenderar att du använder utomhu-
- santenner och 75 ohms koaxialkablar. För kylningens skull får ingen annan AV-utrustning ställas direkt på förstärkaren. Se till att lämna ett mellanrum på åtminstone 10 cm.

# 3 CONNECTIONS

### Speaker System Connections

- This amplifier can accommodate connections of a total of five speakers including one set of front speakers, one set of rear speakers, and one center speaker.
- Connect the speaker terminals with the speakers making sure that polarities are matched ( with , with ). Mismatching of polarities will result in weak central sound, unclear orientation of the various instruments, and the sense of direction of the stereo being

# 3 GERÄTEANSCHLÜSSE

### Anschluß der Lautsprecher

- An diesen Verstärker k\u00f6nnen bis zu f\u00fcnf Lautsprecherpaare angeschlossen werden. Darin eingeschlossen sind ein Vorderkanal-, ein Hinterkanal-und ein Mittenkanal-Lautsprecherpaar.
- Verbinden Sie die Lautsprecheranschlüsse mit den Lautsprechern. Stellen Sie ausschließlich eine Verbindung zwischen den Anschlüssen mit gleicher Polarität (Pluspol (⊕) an Pluspol (⊕) und Minuspol (⊕) an Minuspol (⊕)) her. Bei Mißbeachtung der Polarität kann das zu einem schwachen Klangbild des Mittenkanals führen. Außerdem kann es schwer auszumachen sein, aus welcher Richtung die verschiedenen Instrumente zu hören sind. Sogar der Stereoeindruck kann dabei mehr oder weniger verlorengehen

## 3 CONNEXIONS

### Connexions du système d'enceinte

- Cet amplificateur peut accepter des connexions de cinq enceintes au total, y comprir une paire d'enceintes avant, une paire d'enceintes arrière et une enceinte centrale.
- Connecter les bornes d'enceinte aux enceintes en respectant les polarités ( 🕀 au 🕀, 🖯 au 台 ). Si les polarités ne sont pas respectées, un son central faible est entendu, l'orientation des divers instruments n'est pas correcte et le sens de la direction du son stéréo est détérioré.
- Lors de la réalisation des connexions, prendre soin de ne mettre en

# 3 COLLEGAMENTI

### Collegamento del sistema degli altoparianti Questo amplificatore può essere usato con un totale di cinque

- altoparlanti, comprendente un paio di altoparlanti anteriori, un paio
- altoparianti, comprendente un paro altopariante centrale.
  di altoparianti posteriori ed un altopariante centrale.
  Collegate i terminali degli altoparianti con gli altoparianti assicurandovi che le polarità corrispondono (⊕ con ⊕, ⊕ con ⊝). La scorretta polarizzazione può causare un suono centrale debole, un orientamento poco chiaro dei vari strumenti musicali e un senso di direzione errato del suono stereo.
- Quando effettuate i collegamenti, fate attenzione a chè nessuno dei

# 3 CONEXIONES

### Conexión de los sistemas de altavoces

- A este amplificador se le pueden conectar cinco altavoces en total, incluyendo un juego de altavoces delanteros, un juego de altavoces
- incluyendo un juego de altavuces desarterios, en juego de altavuces traseros, y un altavoz central.

  ◆ Conecte los altavoces a los terminales de altavoces, asegurándose de que las polaridades correspondan ( ⊕ con ⊕ . ⊝ con ⊖ ). Una no correspondencia entre las polaridades dará por resultado un sonido central débil, una orientación poco clara de los diversos instrumenos, y una sensación de desmejoramiento del efecto estereofónico. Al hacer las conexiones, asegúrese de que ninguno de los conduc-

# AANSLUITINGEN

### Aansluitingen luidsprekersysteem

- Deze versterker is voorzien van aansluitingen voor in totaal vijf luidsprekers, te weten een paar voorste luidsprekers, een paar achterste luidsprekers en een middenluidspreker.
- Sluit de luidsprekeraansluitpunten op de luidsprekers aan met de polariteiten bij elkaar passend (⊕ bij ⊕, ⊖ bij ⊖ ). Wanneer de polariteiten niet bij elkaar passen, resulteert dit in een zwak middengeluid, een onduidelijke oriëntatie van de diverse instrumenten en een onregelmatig richtinggevoel van de stereo.

  Let erop dat geen van de afzonderlijke geleiders van het luidsprekers-
- noer in kontakt komt met aangrenzende aansluitpunten, met andere

### 3 **ANSLUTNINGAR**

### Anslutning av högtalarsystem

- Till den här förstärkaren kan totalt fem högtalare anslutas: ett främre högtalarpar, ett bakre högtalarpar samt mitthögtalare.
- Anslut högtalarutgångarna till högtalarna så att polariteten bibehålls ( ⊕ till ⊕, ⊝ till ⊖ ). Om kablarna vänds fel låter ljudet tunt i mitten, känslan för instrumentens placering försvinner och stereoeffekten forsämras.
- Var noga med att ingen av högtalarkablarnas ledare kommer i

 When making connections, take care that none of the individual conductors of the speaker cord come in contact with adjacent terminals, with other speaker cord conductors, or with the rear panel.

### Sneaker Impedance

- Speakers with an impedance of 6 to 16 ohms can be connected for use as front, center and rear speakers.
- The protection circuit may operate or damage may occur when speakers with an impedance outside of the above range are used.
- Beim Anschluß beachten Sie bitte, daß keines der Kabel mit benachbarten Kabein oder Anschlüssen an der Rückseite in Berührung kommt.
- danz der Lautsprecher
- Als Vorderkanal-, Hinterkanal- und Mittenkanal-Lautsprecher können alle Lautsprecher mit einer impedanz von 6 bis 16 Ohm
- Die Schutzschaltung kann aktiviert werden bzw. ein Schaden entstehen, wenn Lautsprecher mit einer Impedanz außerhalb der oben angegebenen Grenzwerte verwendet werden.

contact aucun des conducteurs individuels du cordon d'enceinte avec les bornes adjacentes, avec des conducteurs d'autres cordons d'enceinte ou avec le panneau arrière.

### e Impédance d'enceinte

- Des enceintes avec une impédance de 6 à 16 ohms peuvent être utilisées comme enceintes frontales, centrales et arrière.
- Le circuit de protection peut fonctionner ou une détérioration peut avoir lieu lorsque des enceintes d'une impédance différente de celle citée ci-dessus sont utilisées.

conduttori singoli del cavo dell'altoparlanti venga in contatto con i terminali adiacenti, con altri conduttori dei cavi degli altoparlanti o

- e Impedenza degli altoparlanti
- Potete collegare degli attoparlanti anteriori, centrale e posteriori con un'impedenza da 6 a 16 ohm.
- Il circuito di protezione sarà attivato o si verificheranno dei danni se vengono usati degli altoparlanti con un'impedenza che rimane al di fuori della gamma sopraindicata.

tores individuales del cable del altavoz haga contacto con los terminales adyacentes, con los conductores de otro cable de altavoz,

- e impedancia de los altavoces
- Usted podrá conectar altavoces de 6 a 16 chmios de impedancia para emplearlos como altavoces delanteros, centrales y traseros.
- Cuando se empleen altavoces que se encuentren fuera de la gama de impedancia arriba mencionada, el circuito de protección podrá activarse o podrán producirse daños.

luidsprekersnoergeleiders, of met het achterpaneel, als u aansluitingen tot stand brengt.

- · Luidsprekers met een impedantie tussen 6 en 16 ohm kunnen worden aangesloten als voorste, midden- en achterste luidspre-
- Het beschermingscircuit kan in werking treden of schade kan
   ontstaan als luidsprekers met een impedantie buiten het bovengenoemde bereik worden gebruikt.

kontakt med andra anslutningar, andra högtalarkablar eller med haknanelen vid anstutningen.

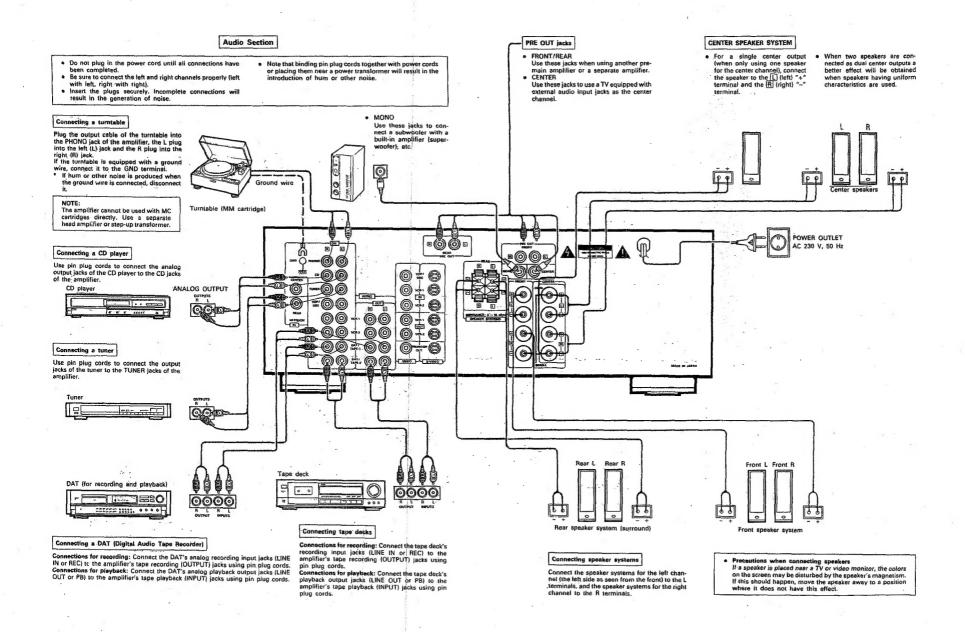
- Högtalare med impedans mellan 6 och 16 ohm kan användas som
- främre, bakre eller mitthögtalare.

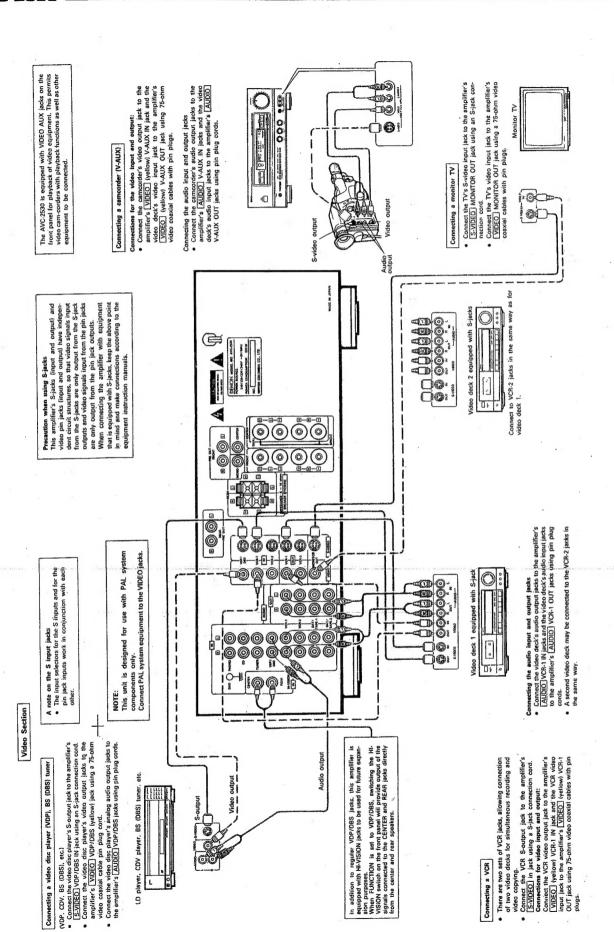
  Skyddskretsen kan utlösas eller skador uppstå om högtalare med annan impedans än ovan används

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| Prégaution   Prégaution   Prégaution   Prégaution   Télécornm   Nomencial   Télécornm   Nomencial   Prima dell'   Prima dell'   Precaution   Collegame   Nomencial   Telecornm   Nomencial   Telecornm   Nomencial   Telecornm   Tasti de   Tasti di   Funzions   Funz  | isation s d'installation s d'installation s s  ture et fonctions ande lature et fonctions de la télécommande it de code de système d'appei de système de transfert de la télécommande ment lis pour la lecture  uso i riguardanti l'installazione nit ura e funzioni del telecomando RC-163 codice del sistema ichiamo del sistema di memorizzazione del telecomando  | 3 4 4 4 4.2, 43 44~46 47~49 e 47, 48 48, 49 49 50, 51 50, 51 50, 51 50, 66, 67 67, 66, 69, 69, 69, 69, 69, 69, 69, 69, 69 | 7 8 9 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | ERES —  Enregistrement (audio et vidéo)  Contrôle de l'enregistrement  Utilisation du DSP (processeur numérique de sign et Modes DSP  Ambiance Dolby Pro Logic  Fonctionnement DSP  Fonctionnement dans les différents modes  Conseils techniques  Affichage sur écrae  Affichage sur écrae  Mémoire de la dernière fonction  Spécifications  EAU DENON SERVICE  Monitoreggio della registrazione  Uso del DSP (elaboratore dei segnali digitali)  Modi DSP  Effetto surround Dolby Pro-Logic  Funzionamento del DSP  Operazioni nei vari modi  Consigli tecnici  Display con visualizzazione sullo schermo  Locelizzazione dei yusti  Memoria del villutima funzione attivata | 55  |
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| Prima dell' Prima dell' Prima dell' Prima dell' Prima dell' Prima dell' Precauzion Collegame Nomencia   | isation s d'instillation s d'instillation s s sure et fonctions ande lature et fonctions de la télécommande de code de système d'appel de système de transfert de la télécommande ment list pour la lecture  uso i riguardanti l'installazione nti uura e funzioni del telecomando RC-183 cocice del sistema cichiamo del sistema dei memorizzazione del telecomando unidel siproduzione deione         | 3 4 4 4 42, 43 44 45 45 45 45 45 45 45 45 45 45 45 45   | 7 See See To See To See To See See To See | EREES —  Enregistrement (audio et vidéo)   | 55  |
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| a     | heck that the following items are included in the package in ddition to the main unit:   | emb                                     | fique que los siguientes accesorios vengan incluidos<br>alaje junto con la unidad principal: |         |
| 1     | ① Operating Instructions   | 9                                       | Manual de instrucciones  |         |
|       | 3 R6P/AA batteries2  | 3                                       | Pilas R6P/AA   | 2       |
| L     | rüfen Sie, ob außer dem Hauptgerät die folgenden Teile im<br>leferkarton enthalten sind:   |   | troleer of de voigende onderdelen in de verpakking idtoestel zitten:                         | bij het |
|       | (1) Bedienungsanleitung  |   | Gebruiksaanwijzing   | 1       |
|       | (2) Permedienung (RC-163)  | 2                                       | Afstendsbediening (RC-163)   | 1       |
| V     | ① Bedienungsanleitung         1           ② Fernbedlenung (RC-163)         1           ③ Batterien (RSP/AA)         2           'érifler que les articles suivants sont inclus dans le carton en plus de |   | R6P/AA batterijentrollera att följande tillbehör medföljer i kartongen borts                 |         |
|       | unité principale:  | huve                                    | idenheten;   |         |
|       | ① Mode d'emploi  | Q                                       | Bruksarivisning  | 1       |
|       | ③ Piles RSP/AA   | 8                                       | Fjärrkontroll (RC-163)   | 1       |
|       | controllate che i seguenti componenti siano stati inclusi nella  | . 3                                     | the two potential  | 2       |
|       | ontrollate che i seguenti componenti siano stati inclusi nella<br>catola di imballaggio dell'unità principale:   |   |  |         |
| 1     | Libretto delle istruzioni  |   |  |         |
| 1 9   | 7 Telecomando (RC-163)   |   |  |         |
| 1 0   | Batterie R6P/AA  |   |  |         |







# PART NAMES AND FUNCTIONS

### O POWER switch

### • ON

When this switch is pressed once, the power turns on and the STANDBY LED @ flashes. (The muting circuit is activated while "MUTING" is flashing to prevent noise when the POWER switch is operated.) After several seconds, the LED stops flashing, remaining lit and the muting circuit turns off. The set is now in the normal operating mode.

### STANDBY

When the POWER switch is pressed once again, the power turns off and the standby mode is set. The STANDBY LED **©** remains lit. In addition, when the power turns off, the power supply from the SWITCH-ED AC outlets on the rear panel also turns off.

### REC SELECT

(independent VCR recording output selector button) This button is used to select the signals output to the VCR-1 and VCR-2 video and/or audio recording output jacks, independent of the mode selected with the function selector buttons.

When this button is pressed once, the recording select mode is turned on and off. If the button is held in, the audio/video recording output switches in the order shown below. Release the button when the desired audio/video recording output appears on the MED **6**.

Press the REC SELECT button again to cancel this mode.

| <br>VDP/DBS  | + VCR-1 | V       | CR-2 |
|--------------|---------|---------|------|
| <br>- SOURCE | •       | - V-AUX | •    |

### NOTE:

- If the "V-AUX" inputs is selected with the REC SELECT mode when the AUDIO function has been selected, the VIDEO AUX video signals are output to the monitor.
- If the CD DIRECT button is selected, the audio and video recording output is automatically prohibited, so it is advisable to use the REC SELECT button @ to prevent accidentally interrupting the recording.

### CD DIRECT button

This button is used to enjoy the audio signals input from the component connected to the CD jacks on the rear panel with higher sound quality. In the CD direct mode, the audio signals bypass such circuitry as the surround and tone control circuits, and are output directly to the front speakers for higher sound quality.

### \* Cancelling the CD direct mode

When in the CD direct mode, either press the CD DIRECT button once again, or press the AUDIO FUNCTION selector button of BYPASS button of or SURROUND MODE selector button to the CD direct mode.

### NOTE:

 When the CD DIRECT button is selected, the output of signals to the audio and video output jacks is automatically prohibited, so the REC SELECT (independent audio/video recording) and VIDEO SELECT (independent video signal selector) buttons do not work. Also, if the REC SELECT button is selected or when using the tape monitor button, the CD DIRECT button will not function.

### STANDBY LED

This LED remains lit when the set is in the normal operating mode or in the standby mode, and flashes when in the muting mode.

### REMOTE SENSOR

This is where the signals from the wireless remote control unit are received.

Point the remote control unit at this sensor when operating it.

### MFD (multi-function fluorescent display)

Information such as the surround mode and the input and output are displayed here when the power is turned on.

Normally the surround mode is displayed. If another button is pressed, a display pertaining to that button is shown for approximately 5 seconds (this time differs according to the display), after which the surround mode is once again displayed.

Refer to pages 9 to 10 for details on the MFD displays.

### AUDIO FUNCTION selector button

This button is used to switch the audio input. Press this button repeatedly or hold it in to change the input in the following order:

| - PHONO - | CD | <del></del> | TUNER |
|-----------|----|-------------|-------|

(All the video outputs are off unless a video function is selected with the VIDEO SELECT button or the REC SELECT button.)

### VIDEO FUNCTION selector button

This button is used to switch the video input. Press this button repeatedly or hold it in to change the input in the following order:



### MASTER VOLUME control

Turn the control clockwise ( $\cap$ ) to increase the volume, counterclockwise ( $\cap$ ) to decrease it.

### (I) PHONES iack

This jack is for connecting headphones.

To cut the sound from the speakers, either turn off the output (speakers) from the remote control unit or turn off the output of the component connected to the PRE OUT lacks.

### BYPASS (surround bypass) button

When this button is pressed, the surround mode is bypassed and the normal stereo sound is produced. No signals are output to the rear channel.

If the SURROUND MODE button is pressed when in the bypass mode, the mode returns to the mode which was set before the bypass mode was turned on

\* In the initial setting the center output is turned off.

### SURROUND MODE selector button

Use this button to select the surround mode. Either press it repeatedly or hold it in to change the surround mode in the order shown below. For details, refer to pages 15 to 16.

DOLBY PRO LOGIC

WIDE SCREEN

LIVE

MONO MOVIE

CLASSIC CONCERT

ROCK CONCERT

CHURCH

JAZZ

L
STADIUM

MATRIX

### (B) 30 CENTER MODE selector button

This button is used to select the center mode when in the Dolby Pro Logic, WIDE SCREEN or LIVE modes. Select the mode according to the speaker system you are using.

-> ① NORMAL -> ② PHANTOM -> ③ WIDE --

The mode switches as follows in the Dolby 3CH Logic mode:

① NORMAL - ② WIDE

 If this button is pressed in a mode other Dolby Pro Logic, live and wide screen, the Dolby Pro Logic mode is set automatically.

For details, refer to page 16.

### 3CH LOGIC

### (three-channel logic) button

This button only functions when in the Dolby Pro Logic mode. When pressed again, the three-channel logic mode turns off and the normal Pro Logic mode

The 3CH LOGIC key does not function when in the Dolby Pro Logic Phantom mode.

For details, refer to page 16.

### HI-VISION

# ((Hi-Vision input switch for use with BS (broadcast satellite) broadcasts))

This function is to be used with future satellite broadcasts. The signals connected to the CENTER and REAR of the HI-VISION jacks on the rear panel do not pass through the surround circuits, but are output directly to the center and rear speakers.

NOTE:

The mode automatically switches to the bypass mode when using the tape monitor function in the Hi-Vision mode.

### TO VIDEO SELECT

### (independent video signal selector) button

This button is used to select the video signal independently of the audio signal. When pressed once, the video selector function turns on. When the button is held in, the video input signal changes in the order shown below. Release the button when the desired video input signal is displayed on the MFD. After this is done, the video signal will not change even if the AUDIO FUNCTION selector button (2) is pressed and the audio input is changed.

To cancel the independent video signal selection mode, either press the VIDEO SELECT button again, or press the VIDEO FUNCTION selector button (9).

| VDP/DBS - |         |
|-----------|---------|
| V-ALIX    | VCR-2 ← |

→ Continued

Use this to adjust the bass sound of the front speaker output or PRE-QUT FRONT jacks. The bass sound is emphasized when turned clockwise (  $\cap$  ) from the center position, reduced when turned counterclockwise (  $\cap$  ) from the center position.

TREBLE control

Use this to adjust the treble sound of the front speaker output or PRE-OUT FRONT jacks. The treble sound is emphasized when turned clockwise (  $\cap$  ) from the center position, reduced when turned counterclockwise (  $\cap$  ) from the center position.

- BALANCE control Use this to adjust the left/right balance of the front speakers (PRE-OUT FRONT jacks).
- W VIDEO AUX INPUTS

These are auxiliary inputs for connecting camcorder's or video cameras or other AV equipment. S-VIDEO: Connect the S-jack output of the other component here.

VIDEO: Connect the video output of the other component here. (Use a 75 ohm video coaxial cable pin-plug cord.)

AUDIO L and R: Connect the audio output of the other component here;

### DAT/TAPE MONITOR

This button is used to play the audio signals input from the component connected to the DAT/TAPE-1, DAT/TAPE-2 jacks on the rear panel over the speakers, or to monitor the sound which was actually recorded on a three-head tape deck.

When the button is pressed once, the DAT/TAPE monitor mode is set. When the button is held in, the DAT/TAPE input signal changes in the order shown below. Release the button when the desired DAT/TAPE input signal is displayed on the MFD.

DAT/TAPE-1 DAT/TAPE-2

When the DAT/TAPE monitor mode is set, the audio (video) signals selected with the VIDEO or AUDIO FUNCTION button are output to the VCR's video REC OUT jacks and the REC OUT jacks of the DAT/tape deck which is currently being monitored.

- The mode automatically switches to the bypass mode when using the tape monitor function in the Hi-Vision mode.
- The DAT/TAPE MONITOR button will not function when the CD direct function is selected.

(B) GND (Grounding terminal)

The grounding wire of the turntable is connected here.

- Hum or noise may be generated if the grounding wire is not connected.
- AUDIO IN (audio input) jacks
- HI-VISION IN jacks Refer to page 7.
- AUDIO OUT (audio output) jacks
- WIDEO (video input/output) jacks
- 3 S-VIDEO (video input/output) jacks
- PRE OUT
  (FRONT, CENTER, REAR and MONO) jacks
  Refer to page 6.

Connect the monaural audio input jack of a separately sold subwoofer or TV here.

- @ REAR SPEAKER SYSTEMS terminals
- **(III)** FRONT SPEAKER SYSTEMS terminals
- CENTER SPEAKER SYSTEMS terminals

Note on the center speaker terminals: The center channel output on the AVC-2530 is dual center compatible, so two center speakers can be used.

For details, refer to pages 4 and 6.

AC cord (power cord)

Display



MULTI FUNCTION DISPLAY

This displays a maximum of 9 characters. Normally the reception frequency is displayed when the function is set to tuner, and the surround mode is displayed when the function is set to other positions. The display also indicates various other information according to the buttons pressed, as shown in the examples on the pages 9 to 10.

V. SELECT (VIDEO INPUT SELECT Indicator)

This indicator lights when the video monitor output is fixed in the video input select mode.

DOLBY SURROUND Indicator

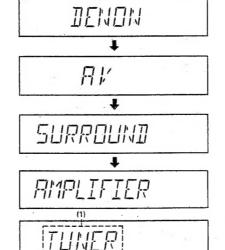
This indicator lights when DOLBY PRO LOGIC is selected by pressing the SURROUND MODE button.

Multi-function Display (MFD)

The multi-function display indicates the status of the mode which has been operated by pressing the buttons on the front panel or on the remote control unit.

### Display pattern examples

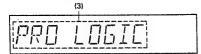
1. When the power is turned on



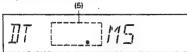
- (1) The function name is displayed.
- (2) The surround mode name is displayed.



### 2. Surround mode display







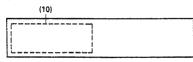
### 3. Center level display



### 4. Rear level and balance display



### 5. Input display



### 6. Recording output display



(3) "DOLBY PRO LOGIC", "DOLBY 3CH LOGIC", "WD SCREEN", "LIVE", "MNO MOVIE", "CLASSIC", "ROCK", "CHURCH", "JAZZ", "STADIUM", "MAT-RIX" or "BYPASS" is displayed.

# "NORMAL", "PHANTOM" or "WIDE" is displayed. \* These are not displayed in modes not using the

Dolby center modes or when the adaptive matrix is off in the WIDE SCREEN or LIVE modes.

### The delay time is displayed.

- \* The delay time is only displayed in the DOLBY PRO LOGIC, WIDE SCREEN, LIVE and MATRIX modes.
- "CNTR VOL" is displayed when the one of the CENTER buttons is pressed.
- The level is displayed in steps of 2dB, from -24dB (minimum) to 0dB (maximum).

- NOTE: -This is not displayed in modes in which no signals are output to the center speaker(s).

### (8) This is displayed when one of the REAR buttons is pressed.

The level is displayed in steps of 2dB, from -24dB (minimum) to 0dB (maximum).

- NOTE: This is not displayed in modes in which no signals are output to the rear speakers.

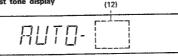
### (10) This is displayed when one of the FUNCTION buttons (AUDIO or VIDEO) is pressed, and the name of the function is displayed in section (10). "D/TAPE-1" or "D/TAPE-2" is displayed if the TAPE MONITOR button or the remote control unit's DAT/TAPE-1 or DAT/TAPE-2 button is pressed. If the video signal has already been selected with the VIDEO SELECT button, the audio input and video input are displayed for 3 seconds when the AUDIO FUNCTION button is

(11) This is displayed when the REC SELECT button is oressed.

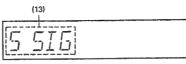
The name of the function ("VDP/DBS", "VCR-1", "VCR-2", or "V-AUX") is displayed. Normally the source is displayed.

When the recording output selection function is off and the video selection function is on, the source is displayed for the audio output and the selected signal ("VDP/DBS", "VCR-1", "VCR-2", or "V-AUX") is displayed for the video output.

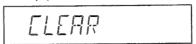
### 7. Test tone display



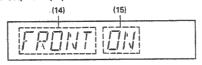
### DSP parameter display, etc.



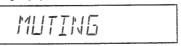
### 9. Clear display



### 10. Outputs display



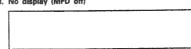
### 11. Muting display



### 12. Protection display



### 13. No display (MFD off)



This is displayed when the T.TONE button on the remote control unit is pressed.

(12) The speaker from which the test tone is being output is displayed here.

This message is displayed until the test tone function is turned off.

### (13) The following are displayed in modes for which the PARAMETER key is effective:

"INITIAL D." "ROOM SIZE"

"S.SIG"

"EFFECT (LEVEL)"

"EFFECT (ON/OFF)"

Also, "AVSE" or "CINEMA" is displayed when the remote control unit's AVSE or CINEMA button is oressed.

· The parameter settings are displayed here.

This is displayed when the CLEAR button is pressed.

"FRONT" is displayed at section (14) when the remote control unit's FRONT button is pressed, "CNTR" when the CENTER button is pressed, and "REAR" when the REAR button is pressed. "ON" or "OFF" is displayed at section. (15).

This is displayed when the MUTING button on the included remote control unit is pressed, and remains displayed until the muting function turns off.

This is displayed when the protection circuit is on. For details, refer to page 22.

Use this when you do not need or do not want to use the

When the PANEL key on the remote control unit is pressed and held in, the display on the MFD changes continuously and finally turns off. After this is done, when a button is pressed, the corresponding display appears for several seconds, but the MFD then automatically turns back off. To turn the MFD back to the normal display mode, press the PANEL button on the remote control unit once again.

### Continued

# Following the procedure outlined below, insert the batteries before using the remote control unit.

### Cautions for batteries

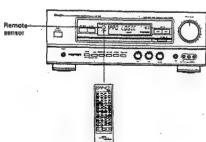
- · Use R6P/AA batteries in the remote control unit.
- Replace the batteries with new ones approximately once each year, though this depends on the frequency with which the remote control unit is operated.
- If the remote control unit does not operate from close to the main unit, replace the batteries with new ones, even if less than one year has passed since the new batteries were inserted.
- · Replace weak batteries as soon as possible.
- . Do not mix new batteries with used ones
- Do not use batteries of different types together. Note that some batteries of the same shape and size may provide different performance.
- Some batteries are rechargeable, others are not.
   Read the battery instructions carefully.
- Do not disassemble, heat, or dispose of batteries in a fire. If the batteries should leak, carefully wipe off any, fluid, from the battery case, then insert new batteries.

### Using the remote control unit

The remote control unit uses highly linear infrared rays. Point it at the amplifier's remote sensor when operating it. The amplifier will not operate if the remote sensor is covered or if there is an obstacle between the remote control unit and the sensor.

Also note that strong light shining on the remote sensor may result in mistaken operations. In addition, using the amplifier near neon signs which generate pulse type noise may result in mistaken operations, so keep the amplifier as far as possible from such neon signs.

# Range of operation of the remote control unit



Open the bottom cover of the remote control unit and remove the battery cover.



Insert the two R6P/AA batteries, matching the ⊕ and ⊕ marks on the batteries with those in the case.



3. Close the bottom cover until it clicks shut.



### M A note on battery replacement

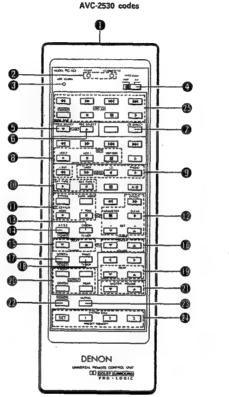
Have replacement batteries on hand so that the old batteries can be replaced as quickly as possible when the time comes.

The codes that have been learned may be lost if removed batteries are not replaced within about 5 minutes.

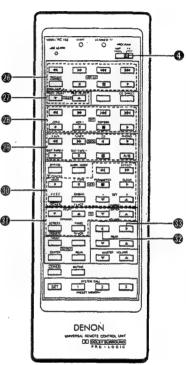
Point the remote control unit at the remote sensor when operating it, as shown on the diagram.

The remote control unit can be used at a direct distance of approximately 7 meters from the main unit, though this distance will be shorter if there is an obstacle between the remote control unit and main unit or if the remote control unit is operated from an angle.

Part names and functions of the remote control unit



System codes



### AVC-2530 Codes

Use with the PROGRAM switch @ set to the AMP side.

### Transmitting window

The remote control signals (infrared rays) are sent from this window.

Indicator section (START, LEARNED/TX)

### () USE/LEARN

(normal use/learn mode) selector button
Press this button with the tip of a pen, etc., to set the
learn mode. Both the START and LEARNED/TX
indicators in the indicator section @ flash and codes
can be learned.

PROGRAM switch

(Same function as on amplifier.)

a REC SELECT bluuon

(Same function as on amplifier.)

CD DIRECT bluuon

(Same function as on amplifier.)

Video function selector buttons

These buttons are used to select the video input signals directly. They select the input signals and switch the video signals.

VDP/DBS: Use this to play the VDP or BS tuner connected to the VDP/DBS jacks.

VCR-1: Use this to play the video deck connected

to the VCR-1 jacks.

Use this to play the video deck connected to the VCR-2 lacks.

V-AUX: Use this to play the cam corder with playback function, etc., connected to the

V-AUX jacks on the front panel.

### Audio function selector buttons

These buttons select the audio input signal directly.

PHONO: Use this to play the record player connected to the PHONO jacks.

CD: Use this to play the CD player connected to the CD jacks.

TUNER: Use this to play the tuner.

### DAT/TAPE button

This button is used to monitor the sound of the component connected to the DAT/TAPE-1 or DAT/ TAPE-2 jacks

Press again to turn the monitor function off.

### SURROUND MODE button

- . BYPASS (Surround bypass) button
- . SURR. MODE (Surround mode) button
- DO CENTER MODE Selector button (Same function as on amplifier.)
- T.TONE (test tone) button

To obtain the maximum Dolby Pro Logic surround effect, the volume of all the speakers must be adjusted to the same level. When this button is pressed, test tones are produced from each of the speakers in the following order:

→ Front left → Center → Front right → Rear

In addition, there are two modes, auto and manual. The speaker volume balance can be adjusted in either of these modes. For details, refer to page 16.

### DSP parameter adjustment buttons

### EFFECT selector button

This button turns the effect of the DSP (digital signal processor) on and off. When turned off, only direct sounds are played on the front left and right speakers. This function can be used to check the effect of the sound processor.

- \* The effect turns back on if this button is pressed once again when the effect is off, or when a parameter is selected and data is changed with the "-" or "+" kevs.
- \* If the power is turned off when the effect is off, that mode is stored in the memory, so only the direct sound is played when the power is turned back on.

### PARAMETER

(DSP parameter selector) button Use this to select the parameter.

For details, refer to page 19.

• "-" and "+" SET

(parameter setting) buttons

Use these to change the parameter selected with the PARAMETER button.

For details, refer to page 19.

· CLEAR (user preset clear) button

When this button is pressed, the parameters for the selected mode are reset to the values preset. upon shipment from the factory. For details, refer to page 23.

### CINEMA

(Treble correction button)

This button is used when playing back movie video software and the speech portion is felt to be harsh

The output frequency response of the center and front speakers becomes closer to that in a theater and the sound becomes more pleasant to the ears. \* This function connot be used in the CD direct

mode.

### A.V.S.E

### (Bass correction button)

This button is used to emphasize the bass range of the fromt speakers.

Setting this switch to ON when using movie video software provides even greater impressiveness. Use this function as desires.

\* This function connot be used in the CD direct code.

### **DELAY** time buttons

When these buttons are pressed, the delay time changes in steps of 1.5ms from 6ms to 60ms, 10.0ms from 60ms to 370ms.

The delay time increases when the A button is pressed

The delay time decreases when the ▼ button is pressed.

In the Dolby Pro Logic mode:

(setting range -- 15.0ms to 30.0ms)



In the wide screen and live modes: (setting range - 6.0ms to 30.0ms)

→ 21ms ← + 6ms <

In the matrix mode: (setting range - 6.0ms to 370.0ms)

-- ▼ ▲ --

### CENTER level adjustment buttons

### SCREEN button

When this button is pressed, the current settings are displayed on the monitor screen.

Operate this button to switch the on-screen display for details on the on-screen display, refer to page 21.

### PANEL button

When this button is pressed, the current settings are displayed on the MFD. Operate this button to switch the on-screen display.

For details on the MFD, refer to pages 9 to 10.

\* This button does not function in the test tone and muting modes.

### REAR level adjustment buttons

### **OUTPUT** (speaker output selector) buttons

Use these buttons to turn the speaker outputs on and off.

The settings are displayed on the MFD.

FRONT: The speaker systems connected to the FRONT speaker output terminals and the PRE OUT FRONT terminals operates.

CENTER: The speaker system(s) connected to the CENTER speaker output terminals and the PRE OUT CENTER terminal operate(s).

REAR: The speaker systems connected to the REAR speaker output terminals and the PRE OUT REAR terminals operates.

### MASTER VOLUME buttons

These button functions in the same way as the MASTER VOLUME control on the main unit. When the A button is pressed, the MASTER

VOLUME control on the main unit turns clockwise and the overall volume increases.

When the ▼ button is pressed the MASTER VOLUME control on the main unit turns counterclockwise and the overall volume decreases.

### POWER button

(Same function as on amplifier.)

### MUTING button

When this button is pressed, the output from the PRE OUT jacks and SYSTEM SPEAKERS terminals is cut. The STANDBY LED flashes when the muting mode is set. Press this button again to cancel the muting

### SYSTEM CALL buttons

For details, refer to page 13.

### System Code Buttons

Different system codes for DENON components are stored at the buttons in section @ when the PROGRAM switch @ is set to the AMP side, the buttons in sections @ through @ when the PROGRAM switch @ is set to the AV side.

> When the PROGRAM switch @ is set to the AMP side:

### **VDP** system buttons

With these buttons, a Denon remote controllable LD player can be controlled directly.

For details, refer to the LD player's operating instructions. Note that operation may not be possible for some models.

Power on/off : Play II : Pause

: Stop and : Manual search (reverse and for-

and : Auto search (reverse and forward)

When the PROGRAM switch @ is set to the AV side:

### CD system buttons

With these buttons, a Denon remote controllable CD player can be controlled directly.

For details, refer to the CD player's operating instructions. Note that operation may not be possible for some models.

: Play II : Pause : Stop

and : Manual search (reverse and forwardl

AVC-253

Õ

and : Auto search (reverse and forward)

: CD changer, disc skip

### Tuner system buttons

With these buttons, a Denon remote controllable tuner can be controlled directly.

For details, refer to the tuner's operating instructions. Note that operation may not be possible for some models.

: Preset (preset channel up) : Preset (preset channel down)

### DAT system buttons

With these buttons, a Denon remote controllable DAT can be controlled directly.

For details, refer to the DAT's operating instructions. Note that operation may not be possible for some models.

Play : Stop • : Record and .: Manual search (reverse and forward) and | Auto search (reverse and for-

### Tape deck system buttons

With these buttons, a Denon remote controllable tape deck can be controlled directly

For details, refer to the tape deck's operating instructions. Note that operation may not be possible for some models

| <u>.</u> : | Forward play                        |
|------------|-------------------------------------|
| <b>4</b> : | Reverse play                        |
| 1          | Pause                               |
|            | Stop                                |
| •          | Record                              |
| 44         | Rewind                              |
| •          | Fast-forward                        |
| A/8        | Switching between decks A and B for |

# VCR system buttons

No system codes are stored here.

ble decks

### TV system buttons

No system codes are stored here.

### System Call Buttons

The system call function is a function which allows you to store a series of remote control operations consisting of the operations of up to a maximum of ten buttons, then perform this series of operations by pressing a single button.

### • Storing the System Call Operations

- 7. Press the SET button. The START LED in the indicator section flashes.
- 2. Set the PROGRAM switch 10 to the desired side, thenpress the buttons for the system call operations in the

order you want to send the signals (up to a maximum of ten buttons). The LEARNED/TX LED lights each time a button is pressed.

It is not possible to store the codes of more than ten buttons. If the button which has been pressed is a non-storable button or if an 11th button is pressed, the START LED will turn off while that button is pressed.

- 3. Press one of buttons 1 to 3 at which you want to store the system call series.
- 4. The START LED turns off. The system call series has now been stored.
- 5. Three system call series can be stored, one each at buttons 1 to 3

To continue storing another series, repeat steps 1 to 4. NOTE:

Signals are sent from the remote control unit when buttons are pressed while storing the system call series, so prevent the components from operating by covering the transmitting-window, etc.

### · Clearing the System Call Series

- 1. Press the SET button. The START LED starts flashing.
- 2. Press the button, 11 to 31, which you want to clear.
- 3. The START LED turns off and the system call series is
- 4. To clear another button, repeat steps 1 to 3.

## . Using the System Call Buttons

- 1. Press the desired button, 11 to 31, once.
- 2. The LEARNED/TX LED lights, and the remote control codes are sent in the order in which they were stored at a speed of approximately one second per code.
- 3. The LEARNED/TX LED turns off once all the codes have been sent

### Remote Control Unit Learning Function

Follow the procedures explained below to use the remote control unit's learning function.

### Operation

- 1. Press the USE/LEARN (normal use/learn mode) selector button @ with the tip of a pen, etc., to set the learn mode, Both the START and LEARNED/TX indicators in the indicator section @ flash, indicating that codes can be "learned"
- 2. Set the PROGRAM switch @ to the desired side, AMP or
- 3. Point the heads (transmitting window) of the RC-163 and the other remote control unit at each other at a distance of approximately 5cm.
- 4. Press the button on the RC-163 at which you want to store the code for one or two seconds, then release it. The LEDs stop flashing, and only the START LED remains lit.

(If a non-learnable button is pressed or if two or more buttons are pressed, both the LEDs will stop flashing. remaining lit, when the button(s) is (are) released.)

- 5. Check that the START LED @ is lit, then press in the button on the other remote control unit whose code you want to store in the RC-163.
- 6. When the START LED @ turns off and the LEARNED LED lights, release the button. That code is now stored. Both LEDs once again start flashing. This operation can now be repeated to store other codes in the RC-163. - NOTE: -
- . If the code was not stored in the RC-163, the LEARNED LED will light after the START LED turns off. For a very limited number of models. codes cannot be stored in the RC-163.
- If after the START LED lights both LEDs start flashing rapidly, this means that the memory is full. The code you just tried to store in the RC-163 was not registered.

To store a different code at a certain button, first used the "Resetting Procedure".

- 7. To store codes at other buttons, repeat steps 4 to 6. 8. After you finish storing all the codes you want, press the USE/LEARN (normal use/learn mode) selector
- button 6 again. Both LEDs stop flashing and the sending (use) mode is set.

Check that the stored codes work properly.

### Learnable buttons:

When the PROGRAM switch is at the AMP side . 14 buttons When the PROGRAM switch is at the AV side ... 58 buttons Maximum of 35 codes in 72 buttons

Depending on the types of codes stored, it may not be possible to store 35 codes.

### · Resetting (Clearing) Procedure

- 1. Press the USE/LEARN (normal use/learn mode) selector button 6 with the tip of a pen, etc., to set the learn
- 2. Set the PROGRAM switch (1) to the side whose codes you want to clear, AMP or AV.
- 3. Press the POWER button @ and REAR ▼ button @ simultaneously, and hold them in for at least four seconds
- 4. When both the START and LEARNED LEDs 2 light simultaneously, all the learned codes for the selected source are cleared.

### • Remote Control Operation

- 1. Check that both the LEDs are off, if they are flashing or lit. press the USE/LEARN (normal use/learn mode) selector button @ so that the LEDs turn off.
- 2. When a button at which a code was "learned" is pressed, the LEARNED/TX LED lights and the remote control code is sent.

### Preparations for playback

- 1. Checking connections
- Referring to the connection diagrams (Pages 6 to 7) check to make sure that the connections are made properly.
- Check that the left and right speakers are connected properly and also that the polarity (⊕, ⊖) is correct.
- Check that the left and right sides of the pin plug cords are connected properly.
- · Check that each cord is securely connected.
- · Check that each cord is of the proper type.

2. Checking the positions of the controls

(See Pages 8 to 10 for a reference to the circled numbers.)

- Turn the MASTER VOLUME control fully counterclockwise to the "0" position.
- Set the BALANCE (B), BASS (D), and TREBLE (B) controls to their center positions.

After making the above checks, press POWER switch  $\ensuremath{\mathbf{0}}$  to switch on the power.

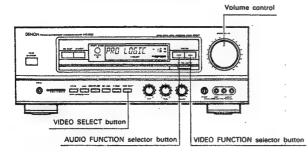
The amplifier will be operable when the LED of the STANDBY control stops flashing after several seconds of muting.

### Note on playback

The sound will be interrupted if one of the FUNCTION selector buttons is pressed during playback. This is due to the operation of the muting circuit which prevents noise from being amplified at the time of switching, and is not a malfunction.

When using the accompanying remote control unit, press the corresponding button.
 For details, see Page 11 of Section B REMOTE CONTROL UNIT.

Playback



### 1. Playing a program source (Normal playback)

- Select the desired program source by pressing the AUDIO FUNCTION selector button or the VIDEO FUNCTION selector button.
- AUDIO FUNCTION SELECTOR (Setting the program source)

| Program source                   | MFD display |
|----------------------------------|-------------|
| To listen to a record            | PHONO       |
| To listen to a CD                | CD          |
| To listen to FM or AM broadcasts | TUNER.      |

VIDEO FUNCTION SELECTOR
 (Setting the video program source)

| Video program source   | MFD display |
|--|-------------|
| To play the video disc player connected to the VDP/DBS jacks or to watch satellite broadcasts                                      | VDP/DBS     |
| To watch the video deck connected to the VCR-1 jacks   | VCR-1       |
| To watch the video deck connected to the VCR-2 jacks   | VCR-2       |
| To watch the video camcorder's equipped with playback function or another component connected to the (front panel) VIDEO-AUX jacks | V-AUX       |

### MFD display



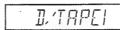
- Begin playback of the program source.
  For operating details, see the manual of the respective component.
- 3 Adjust the volume and tone.

### 2. TAPE MONITOR

(Listening to the sound of the DAT or tape deck connected to the DAT/TAPE-1 or DAT/TAPE-2 jacks)

1 Press the TAPE MONITOR button or the DAT/TAPE-1 or DAT/TAPE-2 button on the remote control unit.

### MFD display



- \* This is displayed when DAT/TAPE-1 is selected.
- Begin playback of the program source.
  For instructions on operation, refer to the manual of the corresponding component.
- 3 Adjust the volume

### Copying tapes

When the deck for playback is set to DAT/TAPE-1, the DAT/TAPE-1 audio signals are automatically output from the DAT/TAPE-2 jacks.

Also, when the deck for playback is set to DAT/ TAPE-2, the DAT/TAPE-2 audio signals are automatically output from the DAT/TAPE-1 jacks. When this is done, the sound being recorded cannot be monitored.

### - NOTES: -

- When monitoring tapes, the audio (video) signals selected with the VIDEO or AUDIO FUNCTION selector button are output to the VCR-1 and VCR-2 VIDEO REC OUT jacks and the REC OUT jacks of the DAT/tape deck which is currently being monitored.
- The mode automatically switches to the bypess mode when using the tape monitor function in the Hi-Vision mode.
- Do not press the TAPE MONITOR, DAT/TAPE-1 or DAT/TAPE-2 buttons during tape monitoring or tape copying, as doing so switches the recording source.
- The CD direct function cannot be used when monitoring tapes.

# 3. Simulcast playback (Playing video and audio sources)

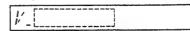
Select the program source you wish to listen to with the AUDIO FUNCTION selector or the VIDEO FUNCTION selector.

### MFD display



[2] Hold down the VIDEO SELECT button for the video program source you wish to watch.

### MFD display



- Begin playback of the program source.
  For operating details, see the manual of the respective component.
- Adjust the volume and tone.
  Note that when the VIDEO FUNCTION button is again used to select the video program source during Simulcast playback, the Simulcast playback will be cancelled automatically.

# REC SELECT button

- Recording program sources
   (Recording the sound and picture of the source currently being monitored)
- Follow the playback instructions for program sources (page 14).
- Start recording on the tape deck, DAT (analog) or video deck.

For instructions on operation, refer to the manual for the corresponding component.

- The audio signals selected with the AUDIO FUNC-TION or VIDEO FUNCTION button are always output from the DAT/TAPE-1 and DAT/TAPE-2 REC OUT jacks, when the REC SELECT mode and tape monitor function are off.
- Note that if the AUDIO FUNCTION, VIDEO FUNC-TION buttons are pressed during recording (audio or video), recording may be interrupted or switch to another recording source, so be careful not to press these buttons.
- If "PHONO", "CD", "TUNER", is selected, no video signals will be output to the video REC OUT lacks.

Simultaneous recording (audio and/or video)
When no function has been selected with the REC
SELECT button

The source selected with the FUNCTION SELECTOR button is output simultaneously to the DAT/TAPE-1, DAT/TAPE-2, VCR-1 and VCR-2 REC OUT jacks. If a total of four decks – Two tape decks and two video decks – are connected and all four are set to the recording mode, the same source can be recorded simultaneously on all for decks.

NOTE: Do not press the TAPE MONITOR, DAT/ TAPE-1 or DAT/TAPE-2 buttons during simultaneous recording.

### Monitoring the recording

The sound which was actually recorded can be monitored when using a three-head tape deck.

To use the tape monitor function, select the position at which the three-head deck is connected using the TAPE MONITOR or DAT/TAPE-1, DAT/TAPE-2 button.

- 2. Recording program sources independently and copying videos independently
- [Recording an video source onto VCR-1 and VCR-2 other than the one currently being monitored]
- Press in the REC SELECT (independent recording selector) button, then release the button when the program source you want to record is displayed. The display changes in the following order:

| <br> | <br>VOP | /DBS | <br>   |  |
|------|---------|------|--------|--|
|      |         |      | +VCR-1 |  |

### MFD display



- Start playback of the program source you want to record.
- Start recording on the video deck.
  For instructions on operation, refer to the manual for the corresponding component.
  - This mode is cancelled if the REC SELECT button is pressed again.

### -- NOTE:

- The REC SELECT button does not function in the CD direct mode.
- If "VIDEO AUX" is set with the REC SELECT button when the "PHONO", "CD", or "TUNER" function is selected, the VIDEO AUX video signals are output to the monitor.

# 7 USING THE DSP (DIGITAL SIGNAL PROCESSOR)

# DSP Modes

The AVC-2530 includes a DSP (Digital Signal Processor) for adjusting the sound field using digital signals. This DSP offers an excellent S/N ratio, channel separation, distortion characteristic, etc. The various parameters can be set according to conditions in the listening room to create a more realistic sound.

The sound field processing modes are as follows:

### 1. Modes not using the DSP

Bypass: In this mode, the surround mode (DSP) is bypassed and the normal stereo sound is produced,

### 2. Modes using the DSP

 Surround modes: In these mode, signals are output to the center and rear speakers as well for four- or five-channel playback.

### The surround modes are as follows:

| 1  | Dolby Pro Logic | Use this when playing program sources recorded in Dolby Surround.  |
|----|-----------------|--|
| 2  | Wide Screen     | Use this to enjoy program sources with the atmosphere of a movie theater, recorded in Dolby Surround.  |
| 3  | Live            | Use this to enjoy program sources with the atmosphere of a live performance, recorded in Dolby Surround.   |
| 4  | Mono movie      | In this mode, a sense of expansion is added to monaural audio sources. This mode is best suited for playing old movies or movie tapes recorded in monaural.  |
| 5  | Classic concert | This mode simulates the sound of a large concert hall. It is suited for classical music, etc.  |
| 6  | Rock concert    | This mode is best for playing rock, popular music, etc.  |
| 7  | Church          | Use this mode when playing religious music, pipe organ music, etc.   |
| 8  | Jazz            | This mode recreates the sound of a live music house with a low ceiling and strong vibrations.  |
| 9  | Stadium         | This mode simulates the sound field of an outdoor stadium.   |
| 10 | Matrix          | Use this to create a sense of expansion with sources recorded in stereo.  The differential components of the input signals are output from the rear channel. |
|    |                 |  |

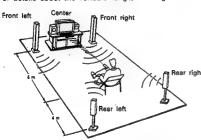
- \* These effects may not be very pronounced for some sources. If this is the case, try other modes, not relying too much on their names, and find the mode you like best. Also, if the sound seems distorted, Either lower the effect level or press the CLEAR button and readjust the parameters.
- \* To adjust the speaker balance for the different surround modes, first adjust for the Dolby Pro Logic Surround mode as explained on page 16, then use the position of the center level and rear level controls at this time as a guide to adjust the balance for that surround mode.

### · Setting the delay time

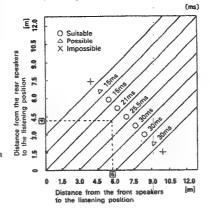
The optimum delay time will differ depending on the listening position. Referring to the chart at right, set the optimum delay time for your room's space and setting position. For example, when the distance from the front speakers to the listening position is 6 m and that from the rear speakers to the listening position is 4 m, the optimum delay time will be 21 ms.

The variable range of the delay time differs depending on the mode.

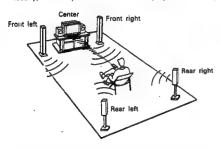
For details about the variable range, see Page 12.



Listening position and optimum delay time for playback with Dolby Pro Logic surround

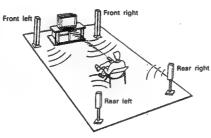


 Speaker arrangement and Dolby Pro Logic and the center mode ideally, center speakers are used for playback of Dolby Pro Logic surround.



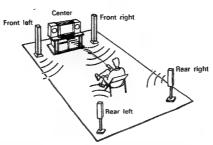
### NORMAL mode

Normal mode: This mode is suited for an arrangement in which the center channel speakers are smaller than the left and right speakers. Signals below 100 Hz which have almost no effect on directional orientation are distributed to the left and right channels, whereas the center channel outputs signals greater than 100 Hz. As a result, the bass of the left and right channels increases the apparent deepness of the sound.



### PHANTOM mode

Phantom mode: Use this mode when center channel speakers are not used. A directional emphasis circuit provides signal reproduction which is electrically oriented to the center and this provides an exciting sound field for your enjoyment.



### WIDE mode

Wide mode: This mode is suited for an arrangement in which the center channel speakers are of the same grade as the left and right speakers. The entire sound band from low region to high is output to the center channel to provide an exciting sound field for your enjoyment.

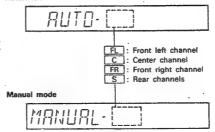
### **Test Tones**

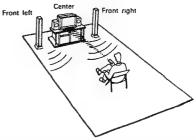
This function emits test signals for adjusting the levels of the different channels for Dolby Pro Logic surround. When the T.TONE button on the remote control unit is pressed, test tones are emitted from the speakers, starting from the front left speaker.

Before playing sources recorded in Dolby Pro Logic surround, arrange the speakers as shown on the diagram above, then use the test tones to adjust the balance between the volumes of the speakers to achieve the most appropriate balance for the listening position, and adjust so that the level of the sound from all the speakers seems to be the same.

To stop emitting the test tones, press the T.TONE button once again. There are two test tone patterns, automatic and manual, selected with the PARAMETER button. In addition, enjoy other surround modes using the volume balance adjusted in the Dolby Pro Logic mode as the basis. For some playback sources the volume balance may not be optimal, so readjust it to suit your tastes.

### MFD display Automatic mode





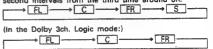
### 3CH LOGIC

Three-channel logic mode: Use this mode when rear channel speakers are not used. The rear channel information is reproduced by the front speakers.

NOTE: The Phantom mode cannot be set when in the 3CH Logic mode.

### **Automatic mode**

The test tones are emitted in the order shown below, at four second intervals the first two times around, two second intervals from the third time around on.



- The test tone is always emitted from the front left channel first.
- The tone will not switch to the next channel when adjusting the center level for the center channel output or when adjusting the rear level for the rear channel output. The tone switches to the next channel two seconds after the level key is released.

### Manual mode

\_\_\_\_\_ FL \_\_\_\_ C \_\_

In this mode, the channels from which the test tones are emitted are selected manually.

Use the - and + buttons to select the channels.

The test tones are emitted in the following order each time the + button is pressed:

| The test tones are emitted in the following order each time |
|---|
| the - button is pressed:                                    |
| FL + C + FR + S +   |

 When switched from the automatic mode to the manua mode, test tones are emitted starting from the channe

mode, test tones are emitted starting from the channel from which they were being output in the automatic mode.

Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U.S. number 3,959,590; Canadian numbers 1,004,603 and 1,037,877. "Dolby" and the double-D symbol © are trademarks of Dolby Laboratories Licensing Corporation.

CINEMA button

Set these to suit your tastes. (Refer to page 12.)

(2) WIDE SCREEN DSP Operation MFD display 1. Surround modes Main unit and remote control unit SURROUND MODE button The DSP surround mode switches in order each time this button is pressed. (1) Dolby Pro Logic and 3ch Logic Modes for playing program sources recorded in Dolby surround LIVE MFD display MFD display PRO or 3CH LIVE • The usable parameters are the same for the above two modes. **①** DOCENTER MODE button Main unit and remote control unit Set the Dolby center mode according to the center speaker(s) being used. ①DICENTER MODE button Main unit and remote control unit Refer to page 16. Same as for the Dolby Pro Logic mode. MFD display ② PARAMETER button Remote control unit Center mode Use this to select and set the parameters. Surround signal - Effect level · Refer to page 19. ③DELAY buttons ( and ) Remote control unit **②T.TONE** button Remote control unit Use these to set the delay time (between 6.0 and 30.0msec). Use this to adjust the speaker levels and balance. @Start playing the source. Refer to page 16. (5) A.V.S.E. button Remote control unit PARAMETER button Remote control unit CINEMA button Remote control unit Automatic mode --- manual mode (Refer to page 16.) Set these to suit your tastes. ③DELAY buttons ( A and V) Remote control unit (Refer to page 12.) Use these to set the delay time (between 15 and 30msec). @Start playing the source. SA.V.S.E. button

Remote control unit

Remote control unit

| Operations in the Different Modes | HADWT CENTER REAR CENTER REAR CENTER TEST DELAY SUBAR | SPIPRE 1 LEVEL LEVEL MODE 10NE 11ME | X X X C X X C C C C C C C C C C C C C C | x x x x x x x x x x x x x x x x x x x | MUNIMAL O O O O O O O O | 0 0 x | C C C C C SUMM | X O X O O | WIDE O O X O O X X   | WIDE NORMAL O O O O O X O O | SSIGL-R BEANTOLE C V C V C V | (A. MATRIX ON) | O XX OO OO OO OO OO | LIVE* S.SIG.L.+R (A. MATRIX OFF) O X X O X X O O | ×. 0 ×. | COLASSIC CONCERT | ROCK CONCERT | CHUNCH |  | X X X X EA O X O O . | MATRIX   |  | nally fixed chiefus ris TAPE  | SIZE LEVEL ONOFF ALTONO  | X X X X X X X X X X X X X X X X X X X | C C C C C C C C C C C C C C C C C C C | O O O O O O O O O O O O O O O O O O O | 0 0 x x x | NORMAL X X | 0         | C |  | O O X X X X X | NORMAL X | SCREEN S.SIGL-R PHANTOM | O O O X O O X | S.SEGLI-F (A. MATRIX OPF) | The state of the s | D D D D D D D D D D D D D D D D D D D | 000000000000000000000000000000000000000 | ROCK CONCERT | Hemote control unit |  | × | V. (Detasen) possible X. Interestina not novelible | Simple of the state of |          | TWhen the power is turned on and when switching from other modes, the front and center speaker pre-outputs, rear | speaker are anti-matically framework of the first to be a second of the | speaker are automatically turned on, even if they were off. In the bypass mode, however, the center speaker pre-outputs | 000000000000000000000000000000000000000 | , | Remote control unit | _ | 13 The manufacture assessment and an expension of the formation and the second | I he morte automatically switches to the bypass mode when using the tape monitor function in the Hi-Vision mode. | ** When the expressed in ( ) and ordered to express on a consistent of the discount of the second of | when the solvening signal is L-n, the adaptive intally turns on automatically and the circcityty is stressed, and when the | surround signal is L+R, the adaptive matrix turns off automatically and the directivity is not stressed. |     | Remote control unit |                     | Remote control unit |  |  |
|-----------------------------------|---|-------------------------------------|---|---------------------------------------|-------------------------|-------|----------------|-----------|--|-----------------------------|------------------------------|----------------|---------------------|--|---------|------------------|--------------|--------|--|----------------------|--|--|---|--|---------------------------------------|---------------------------------------|---------------------------------------|-----------|------------|-----------|---|--|---------------|----------|-------------------------|---------------|---------------------------|--|---------------------------------------|---|--------------|---------------------|--|---|--|------------------------|----------|--|---|---|---|---|---------------------|---|---|--|--|--|--|-----|---------------------|---------------------|---------------------|--|--|
|                                   | اب.   | 1                                   |   |                                       |                         |       |                |           |  |                             |                              |                |                     |  |         |                  |              |        |  |                      |  |  | re also inter   |  |                                       |                                       | nd remote co.                         |           |            | 9         |   |  |               |          |                         | Re            |                           |  |                                       | Remo                                    |              | Hemot               |  |   |  |                        |          |  |   |   |   |   | Remor               |   |   |  |  |  |  | - 1 | Re                  | -                   | 9                   |  |  |
| MFD display                       |   |                                     |   |                                       |                         |       |                |           | The state of the s |                             | 「しつにてい                       |                |                     |  | 7707    |                  | 71.14CFF     |        |  |                      | <ul> <li>The usable parameters are the same for the above six DSP surround modes.</li> </ul> | • Set the parameters according to the DSP surround mode. | <br><ul> <li>Even if the parameters are set to the same values for all the surround modes, there are also internally fixed</li> </ul> | parameters, so the effects created with the various modes will be different. |                                       |                                       | Main unit and remote control unit     |           |            | TOOM SIZE |   |  |               |          | террифирири             | Ref           |                           |  |                                       | Remo                                    |              | Kemote              |  |   | MFD display  |                        | ション・ファン・ |  |   |   |   |   | Remot               |   |   | Use these to set the delay time (between 6.0 and 370.0msec).   |  |  |  | •   | Rei                 | -t-<br> -t-<br> -t- | Re                  |  |  |

Continued

Use this button to select the parameter.

The normal procedure for setting parameters is to first select the parameter with the PARAMETER button, then use the Remote control unit + and - buttons to set the selected parameter.

If no button is pressed for approximately 15 seconds, the parameter setting mode is automatically cancelled. Initial delay Ξ

This parameter sets the distance (delay time) from the sound source to the reflecting walls. The larger the value, the further away the sound source seems.

0 ~ 50msec +

MFD display

reverberations are responsible for the richness of the overall sound.

These different sounds can be graphed as follows:

8

(10msec. STEP)

The larger the value, the larger the sound field seems to be, and the greater the sense of expension. This parameter sets the time interval between the initial reflected sounds.

 $\pm$ 4 ≥ 20 (2 STEP)

1

MFD display

Effect level

ල

The larger the value, the greater the level of the reflected sound. This parameter adjusts the level of the reflected sound.

0 [] ~

MFD display

<u>4</u>

Surround signal This parameter is only for the WIDE SCREEN and LIVE modes. Select the surround input signal.

L-R -- L+R + I

The sound is interrupted momentarily when the delay, initial delay, room size and effect level parameters are changed, but this is normal.

For some playback sources, noise may be generated if the DSP parameters are changed.

Technical Advice

The sounds we hear normally or in concert halls, etc., does not only consist of sounds heard directly from the sound source (direct sound). Sound disperses in all directions and is reflect repeatedly off the walls and ceilings, and these 1. "Sound field"

Reflected sounds can be classified into two main categories. The first is initial reflected sound, and this is sound which we hear after it has reflected once or a few times off of walls. This creates an echo-like effect, but as the time difference with respect to the direct sound is short, we do not perceive this initial reflected sound as a distinct sound. Rather, it has the effect of increasing the sense of expansion or depth of the direct sound. The second category of reflected sound is called reverberations. These are sounds which reach our ears after an elaborate series of reflections. These reflected sounds reach our ears with a certain delay.

Time Reverberations Initial reflected sound Direct sound

surrounding the sound source, that is such conditions as the size of the room, the distance to the walls, the shape and material of the walls, and our position within the room. This reflected sound combines with the direct sound, and we The above is only one example. Actually the reflected sound takes on a particular form depending on the environment recognize as it as the particular sound to the listening environment. This particular sound is called the sound field. Normally we hear it without paying special attention to it.

The AVC-2530 uses an advanced DSP (digital signal processor) to create various sound fields.

2. DSP sound fields

We now have access to many types of music and movie sources, including LDs, CD, videos, satellite broadcasts, and so on. In most cases, some sort of sound field has already been added to these sound sources. For live recordings, of course, but also for studio recordings, the reflected sounds are recorded along with the direct sound. But when we listen to them, we sometimes feel we would like a richer sound, or for example that we would like to recreate the exciting sense of presence at a live concert. By adding the DSP sound fields to the sources, we can create a more real sound with greater atmosphere.

The sound fields created by the DSP are created based on the sound source. Because of this, some adjustments are necessary to achieve an effect which fits the source, including the sound field already included in the source. The AVC-2530 offers various parameters so that the user can make these adjustments. Values have already been preset for the different parameters in the various modes upon shipment from the factory, they can be adjusted to create your own original sound fields.

The parameters which the AVC-2530 includes for adjusting the sound field are as follows: (Initial delay

②Room size ③Effect tevel @Effect

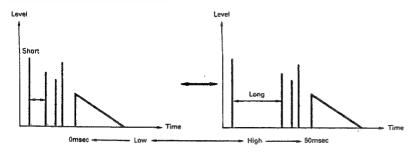
# AVC-2530

### 3. Description of parameters

### (1) Initial delay

This parameter sets the distance (delay) time from the sound source to the reflecting walls.

Variable range: 0 to 50msec (in 10msec steps)

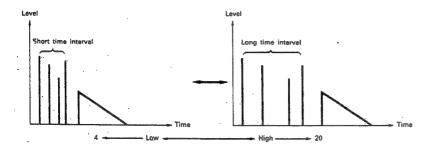


This adjusts the time difference between the direct sound and the initial reflected sound. Think of it like changing
 the distance from the sound source to the wall behind the stage.

The higher the value, the deeper the stage seems to be.

### (2) Room size

This parameter sets the time interval between initial reflected sounds. Variable range: 4 to 20 (in 2 steps)



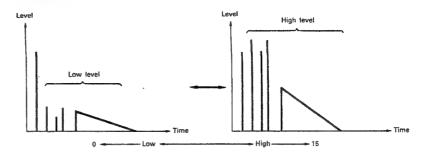
This parameter controls the size of the room. The higher this value, the greater the time interval between initial reflected sounds, and the greater the time difference between the direct sound and the initial reflected sounds. In other words, the time until which the sound reaches the listeners ears after reflecting off walls increases, as if the size of the room increased, inversely, the lower the value, the smaller the room. This parameter has a strong effect, so if changed the sound may seem unnatural with some sources. If so, either lower the effect level or decrease the room size parameter.

### (3) Effect level

This parameter adjusts the level of the reflected sound.

The higher the value, the greater the level of the reflected sound.

Variable range: 0 to 15



Normally the number of reflected sounds runs from several sounds to several tens of sounds, and specific data is set for each of these in the different modes. For some sources, the level of the reflected sound may be too high, making the sound harsh to listen to. In other cases, the effect will be too low and not perceivable. In such cases, use this parameter to change the overall level of the reflected sounds without changing the balance between the level of the different reflected sounds, that is without changing the specific character of the sound field. If this parameter is set too high or too low, the resulting sound may be bizarre. At level 0, in particular, there is no reflected sound at all.

Lower the effect level if the sound seems distorted.

### (4) Effect

This parameter turns the DSP sound field effect on and off.

When jurned off, the sound is the same as in the bypass mode, and only the direct sound is played.

### 4: Creating original sound fields

Here we offer a general example of how to create original sound fields.

- (1) Select the surround mode to use as the base.
- (2) Adjust the room size and initial delay parameters.

First adjust the room size parameter. At this stage, roughly determine the size of the sound field. After roughly adjusting the room size parameter, adjust the initial delay parameter. If the room size and initial delay values are too high, the result may be an unnatural sound for some sources. Find the sound you like.

### (3) Overall adjustment

Use the effect level parameter to adjust the balance between the direct sound and the reflected sound. The atmosphere changes substantially just by changing this balance.

If you cannot achieve the desired effect, try returning to the previous step. In particular, the relationship between steps 2 and 1 is important, so it may be a good idea to try something else. Sometimes you might discover surprising effects through different combinations.

The preset modes have been given names indicating sound fields appropriate for different types of music sources, but when creating your own original sound fields there is no need to worry too much about these names. To create a sound field to your liking, it may be best to try different variations.

\* Press the CLEAR button to start over from scratch.

# 8 ON-SCREEN DISPLAY

If the SCREEN button on the remote control unit is pressed when the power is turned on, the operating modes are displayed on the monitor TV's screen when buttons are operated, etc.

The displays shown below appear on the screen when the power is turned on and the SCREEN button is operated. The mode changes between screen 1, screen 2, screen 3, screen 4 and off each time the SCREEN button is pressed. When the power is turned on, screens 1 to 3 are displayed for approximately 6 seconds, after which the on-screen display automatically turns off.

When other buttons are pressed, messages related to the button that was pressed are displayed for approximately 5 seconds, then automatically turn off.

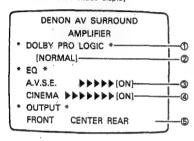
(The normal picture is displayed under the message, but if no picture is being input, the background turns a color which is internally produced.)

### - NOTE -

- The on-screen display signals are not output to the S-VIDEO MONITOR OUT jacks or the video output jacks for recording.
- If a video source is selected but no video signals are being input (when a color background is displayed), the color background turns off after the message is displayed.

The following screens are examples of displays.

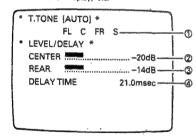
Screen 1 Surround mode display



- (1) Surround mode
- ②Center mode
- 3 A.V.S.E. setting (on/off)
- (Cinema setting (on/off)
- Output indicators.

These indicators are displayed when signals are being output to these channels,

Screen 2 Level display, etc.



(1) Test tone display

This is displayed when the test tone mode is set.

@Center level

The level is displayed by a bar graph and by the decibel (dB) value.

If the level is increased, the bar becomes longer.

@Rear level and balance

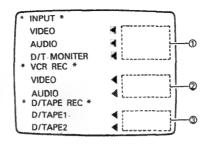
The levels are displayed by a bar graph and by the decibel (dB) value.

If the level is increased, the bar becomes longer.

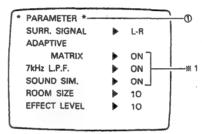
4 Delay time

This displays the delay time.

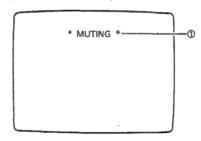
Screen 3 Input/output display



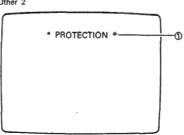
Screen 4 Parameter display, etc.



Other 1



Other 2



(1) Input selector display

The set input is displayed here,

- ②VCR recording output selector display The name of the source being output to the VCR is displayed here.
- ③ DAT/TAPE recording output selector display The name of the source being output to the DAT/TAPE-1 and DAT/TAPE-2 jacks is displayed here.

### (1) Parameter display

This indicates the DSP parameters.

Displayed for approximately 15 seconds.

### MOTE

The parameters displayed at section "%1" of Screen 4 are only displayed on the screen and cannot be set. However, when the "SURR. SIGNAL" setting is switched from "L – R" to "L + R", the "ADAPTIVE MATRIX" display automatically switches from "ON" to "OFF".

### Muting display

This flashes when in the muting mode.

### (1) Protection circuit display

This flashes when the protection circuit is activated. For details, refer to page 22.

# 9 TROUBLESHOOTING

- If a problem should arise, first check the following:
- 1. Are the connections correct?
- 2. Have you operated the amplifier according to the Operating Instructions?
- 3. Are the speakers, turntable, and other components operating properly?

If the amplifier is not operating properly, check the items listed in the table below. Should the problem persist, there may be a malfunction. Disconnect the power immediately and contact your store of purchase.

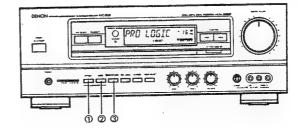
|   | Symptom .   | Cause  | Measures   | Page                          |
|---|---|--|--|-------------------------------|
|   | MFD not lit and sound not produced when power switch set to on. | Power cord not plugged in securely.  | Check the insertion of the power cord<br>plug.   | 6                             |
| CD, records,                                      | MFD lit but sound not produced.                                 | Speaker cards not securely connected     OUTPUT button is off.     Improper position of the audio input selection button.     Volume control set to minimum.     MUTING is on.     | Connect securely.     Select FRONT, CENTER, or REAR of the remote control's OUTPUT button.     Set to a suitable position.     Turn volume up to suitable level.     Switch off MUTING.                | 4. 6<br>12<br>8. 9<br>8<br>12 |
| when listening to the CD, re                      | -PROTECT- display appears<br>on multi-function display.         | Speaker terminals are short-circuited.     Blocking the ventilation holes of the set.     The unit is operating at continuous high power conditions and/or inadequate ventilation. | Switch power off, connect speakers properly, then switch power back on.     Turn off the set's power, then ventilate it well to cool it down.     Once the set is cooled down, turn the power back on. | 2                             |
| s arising when                                    | Sound produced only from one channel.                           | Incomplete connection of speaker cords,     Incomplete connection of input/ output cords.     Left/right balance is off.   | Connect securely. Connect securely. Adjust balance knob properly.  | 6, 7                          |
| Common problems arising tapes, and FM broadcasts, | Positions of instruments reversed during stereo play-<br>back.  | Reverse connections of left and right<br>speakers or left and right input/output<br>cords.   | Check left and right connections.  | 6, 7                          |
| s, an   | Sound seems distorted.  | Effect level parameter is high.  | Lower effect level parameter.  | 19, 20                        |
| Com   | Sound seems strange.  | DSP parameter settings are poor.   | Press the CLEAR button then adjust the DSP parameters.   | 15                            |
|   | Sound field effect cannot be heard.                             | EFFECT is turned off.  | Turn EFFECT on.  | 19                            |
|   | Recording (audio and/or video) is not possible.                 | CD direct mode set.  | Cancel CD direct mode.   | 8                             |
|   | CD direct mode does not work.                                   | REC SELECT is on.  | Cancel REC SELECT.   | 8                             |

|                    | Symptom   | Cause   | Measures  | Page                 |
|--------------------|---|---|---|----------------------|
| 8                  | Humming noise produced when record is playing.  | Ground wire of turntable not connected properly.     Incomplete PHONO jack connection.     TV or radio transmission antenna nearby.     | Connect securely. Connect securely. Contact your store of purchase.   | 6<br>-               |
| en playing records | Howling noise produced when volume is high.   | Turntable and speaker systems too close together. Floor is unstable and vibrates easily.  | <ul> <li>Separate as much as possible.</li> <li>Use cushions to absorb speaker vibrations transmitted by floor. If turntable is not equipped with insulators, use audio insulators (commonly available).</li> </ul> | -                    |
| When               | Sound is distorted.   | Stylus pressure too weak.     Dust or dirt on stylus.     Cartridge defective.  | Apply proper stylus pressure.     Check stylus.     Replace cartridge.  | =                    |
|                    | Volume is weak.   | MC cartridge being used.  | <ul> <li>Replace with MM cartridge or use a<br/>head amplifier or step-up transformer.</li> </ul>   | 6                    |
|                    | Amplifier does not operate properly when remote control unit is used. (When LEARNED/                    | Batteries dead.     Remote control unit too far from amplifier.   | Replace with new batteries.     Move closer.  | 11                   |
| unit               | TX LED is (it)  | Obstacle between amplifier and remote control unit.     Learning process to the button improper.     Different button is being pressed. | Remove obstacle. Set learning again. Press the proper button.   | 11                   |
| Remote control     | Amplifier does not operate properly when remote control unit is used. (When LEARNED/ TX LED is not lit) | Learning process to the button improper.     Learning process has not been applied to the button.     Batteries dead.                   | Set learning again.     Apply learning process.     Replace with new batteries.     Insert batteries properly.  | 13<br>13<br>11<br>11 |
|                    |   |   | Set to desired position (AMPLIFIER, AV).  | 1                    |

### • INITIALIZATION OF THE MICROPROCESSOR

When the indication of the MFD display is not normal or when the operation of the unit does not shows the reasonable result, the initialization of the microprocessor is required by the following procedure.

- [] Switch off the unit and remove the AC power cord from the wall outlet.
- 2 Hold the following 3 buttons of the main unit at the same time (as illustrated in the diagram below, (1) BYPASS button, @ SURROUND MODE button, and @ CENTER MODE button) plug the power cord into the outlet.
- 3 Check that the entire MFD display is flashing with an interval of about 1 second, and release your fingers from the 3 buttons.
- 4 Switch on the unit and the microprocessor will be initialized. The input function is set to tuner with the bypass mode automatically.
- NOTE: When the unit does not show the result of above 3 and 4, repeat the procedure from 1
  - · When the microprocessor is initialized, all the previous setting of the unit is released and is set to the shipping condition from the manufacturer.



### Initial settings of parameters

24

The initial settings of the different parameters are as shown below. When the CLEAR button is pressed, the settings are all reset to these values.

|                 | FRONT<br>SP/PRE | CENTER<br>SP/PRE | REAR<br>SP | CENTER<br>LEVEL | REAR<br>LEVEL | CENTER<br>MODE | 3CH.<br>LOGIC | TEST<br>TONE | DELAY<br>TIME |
|-----------------|-----------------|------------------|------------|-----------------|---------------|----------------|---------------|--------------|---------------|
| BYPASS          | ON              | OFF              | OFF        | -12dB           | -             | -              | -             | -            | -             |
| HI-VISION       | ON              | ON               | ON         | -12dB           | -12dB         | -              |               | -,           |               |
| DOLBY PRO LOGIC | ON              | ON               | ON         | -12dB           | -12dB         | NORMAL         | OFF           | OFF          | 21msec        |
| WIDE SCREEN     | ON              | ON               | ON         | -12dB           | -12dB         | NORMAL         | -             | -            | 21msec        |
| LIVE            | ON              | ON               | ON         | -12dB           | -12dB         | NORMAL         | -             | -            | 21msec        |
| MOVIE           | ON              | OFF              | ON         | -               | -12dB         | -              | -             | -            | -             |
| CLASSIC         | ON              | OFF              | ON         | -               | -12dB         | -              | -             | -            | -             |
| ROCK .          | ON              | OFF              | ON         | -               | -12dB         | -              | -             | -            | -             |
| CHURCH          | ON              | OFF              | ON         | -               | -12dB         | -              | -             | -            | -             |
| JAZZ            | ON              | OFF              | ON         | -               | ~12dB         | -              | -             | -            | -             |
| STADIUM         | ON              | OFF              | ON         | -               | -12dB         | -              | -             | -            | -             |
| MATRIX          | ON              | OFF              | ON         | -               | -12dB         | -              | -             | -            | 21msec        |

|                 | SURR.<br>SIGNAL | INIT<br>DELAY | ROOM<br>SIZE | EFFECT<br>LEVEL | EFFECT<br>ON/OFF | AVSE | CINEMA |
|-----------------|-----------------|---------------|--------------|-----------------|------------------|------|--------|
| BYPASS          | -               |               | -            | _               | -                | OFF  | OFF    |
| HI-VISION       | -               | -             | -            | -               | -                | OFF  | OFF    |
| DOLBY PRO LOGIC | -               | -             | -            | -               | -                | OFF  | OFF    |
| WIDE SCREEN     | L-R             | -             | 10           | 10              | -                | OFF  | OFF    |
| LIVE            | L-R             |               | 10           | 10              | -                | OFF  | OFF    |
| MOVIE           | -               | 0msec         | 10           | 10              | ON               | OFF  | OFF    |
| CLASSIC         | -               | 0msec         | 10           | 10              | ON ·             | OFF  | OFF    |
| ROCK            | -               | 0msec         | 10           | 10              | ON               | OFF  | OFF    |
| CHURCH          | -               | 0msec         | 10           | 10              | ON               | OFF  | OFF    |
| JAZZ            |                 | 0msec         | 10           | 10              | ON               | OFF  | OFF    |
| STADIUM         | _               | 0msec         | 16           | 10              | ON               | OFF  | OFF    |
| MATRIX          | -               | -             | -            | -               | -                | OFF  | OFF    |

# 10 LAST FUNCTION MEMORY

- This amplifier is equipped with a last function memory which stores the input and output setting conditions as they were immediately before the power is switched off.
- This function eliminates the need to perform complicated resettings when the power is switched on.
- This amplifier is also equipped with a back-up memory. This function provides approximately one month of memory. storage with the power cord disconnected.

# 11 SPECIFICATIONS

### Audio Section

(Power amplifier) (20 Hz to 20 kHz 8 ohms 0.05% T.H.D.) Front: 80 W + 80 W Rated output: Center: 80 W (20 Hz to 20 kHz 8 ohms 0.05% T.H.D.) (All properties shown are (1 kHz, B ohms, 0.5% T.H.D.) Rear: 25 W + 25 W only for the power

amplifier stage.) Front: 6 to 16 ohms Load impedance: Center: 6 to 16 ohms

Rear: 6 to 16 ohms

### (Pre-amplifier)

Line input (Each line input - FRONT PRE OUT)

PHONO (MM): 2.5 mV / 47 kohms Input sensitivity/impedance: 150 mV/47 k ohms

10 Hz to 50 kHz: ±3 dB (BYPASS mode) Frequency response:

5 Hz to 100 kHz: +0, -3dB (CD DIRECT) Tone control range: BASS: ±10 dB at 100 Hz

TREBLE: ±10 dB at 10 kHz 92 dB (BYPASS mode) Signal-to-noise ratio 94 dB (CD DIRECT)

0.01% 1 kHz 1 V (BYPASS mode) Distortion factor:

Phono equalizer (PHONO input - REC OUT)

RIAA deviation: ±1 dB (20 Hz to 20 kHz)

74 dB (A weighting, with 5 mV input) Signal-to-noise ratio:

150 mV/8 V Rated output / Maximum output: 0.03% (1 kHz, 3 V)

Distortion factor:

### Video Section

Standard video jacks

Input and output level/impedance: 1 Vp-p/75 ohms

1 Hz to 8 MHz +0, -3 dB Frequency response:

S-video output jacks

Y (brightness) signal: 1 Vp-p/75 ohms Input and output level / impedance: C (color) signal: 0.286 Vp-p/75 ohms

Frequency response: 1 Hz to 10 MHz +0, -3 dB

### • General

Power supply:

AC 230 V. 50 Hz 250 W

Power consumption: Maximum external dis

434 (W) × 161 (H) × 421 (D) mm (17-3/32" × 6-11/32" × 16-37/64") Weight:

12.7 kg (28 lbs 1 oz)

### Remote control unit

System remote control with learning function

RC-163: Total buttons:

**DENON system code** CD player: 8 buttons Cassette deck: 8 buttons VDP: 8 buttons TUNER: 2 buttons

AVC-2530 fixed codes: 38 buttons

Learning buttons

System call buttons: 3 (maximum of 10 codes per button) Program - AMP: 14 buttons

62

- AV: 58 buttons Maximum total: 35 codes

R6P/AA Type (two batteries) Batteries:

External dimensions: 70 (W) × 215 (H) × 18 (D) mm (2-3/4" × 8-15/32" × 45/64")

Weight: 170 g (Approx. 6 oz) (including batteries)

<sup>\*</sup> For purposes of improvement, specifications and design are subject to change without notice.

### DENON SERVICE NETWORK

- · Please contact one of our overseas service centers, listed below, for follow-up service consultation.
- Wenden Sie sich für anfallende Wartungs- bzw. Reparaturarbeiten bitte an eine der folgend aufgeführten Kundendienststellen
- Adressez-vous à nos centres de service d'outre-mer indiqués ci-dessous, pour le service aprèsvente.
- Per il servizio dopo vendita rivolgete Vi al nostro centro di servizio estero appropriato della lista sequente.
- Para consultas de servicio porfavor dirigirse a cualquiera de nuestros centros de servicio en el extranjero, enlistados
- Neem kontakt op met één van onze reparatie-inrichtingen in het buitenland, waarvan hier een lijst volgt, voor na-service.
- Ta kontakt med nedan angivna servicecentraler för rådfrågning om servicearbeten efter försäljningen.
- Favor contactar um de nossos centros de serviços internacionais, abaixo listados, para consulta de serviços de

| Australia AWA Limite | <ol> <li>112-118 Talavera Road, North Rvd</li> </ol> | de NSW 2113, Australia, Postal Locked Bag No. 12 |
|----------------------|--|--|
|----------------------|--|--|

North Ryde. Tel: (02) 888-9000, Fax: (02) 888-9310, Telex: AA 22692 Austria

Boyd U, Haas Electronic-Bauelemente Vertriebsges, mbH & Co., KG Rupertusplatz 3 A-1170 Wien Tel: 0222-460288

Belgium. Transtel-Sabima P.V.B.A. Harmoniestraat 13, 2018 Antwerpen 1, België Tel: 03-237-3607 Denon Canada Inc. 17 Denison Street, Markham Ontario, Canada L3R 185 Tel: 416-475-4085 Canada

Denmark Audionord Danmark A/S. Vester Alle 7, 8000 Århus C. Tel: 86-128811 Finland Suomen Hi-Fi Klubi OY Nylandsgatan 4-6, Helsingfors Tel: 0644401 France Denon France S.A. 3 Boulevard Ney, 75018 Paris Tel: (1) 40 35 14 14 Denon Electronic GmbH Halskestraße 32,4030 Ratingen 1 Tel: 02102-4985-0 F.R. Germany

Greece Kinotechniki Ass. 47 Stournara Str., Athens Tel: 3606 998

Tai Lin Radio Service Ltd. 310 Nathan Road, Kowloon, Hong Kong Tel: K-855005-8 Hong Kong

Japis Ltd. Brautarholt 2, Box 396, 101 Reykjavík, Iceland Tel: 27133 leatand PT Autoaccindo Java. Cideng Barat No. 7 Jakarta, Indonesia Tel: 6016599 Indonesia

Melchioni S.P.A. Via P. Colletta 37-20135 Milano Tel: 02-57941

Malaysia Pertama Audio Sdn. Bhd. 44-46 Jalan SS 22/21 Damansara Jaya, 47400 Selangor, Malaysia

Mexico Labrador, S.A. de C.V. Zamora No. 154 Col. Condesa 06140 Mexico, D.F. Tel: 286 55 09

Fax: 286 34 62

Penhold B.V. Isarweg 6, 1043 AK Amsterdam Tel: 020-611-4957 Notherlands

New Zealand Avalon Audio Corpn. Limited 119 Wellesley Street, Auckland 1, New Zealand

Tel: 09-779-351, 09-775-370

Hi-Fi Klubben Box 70 Ankertorget, 0133 Oslo 1 Tel: 02-112218 Norway Videoacustica Ota. Do Paizinho-Armazém 5-Estrada De Circunvalação-Apart. 3127 1303 Lisboa Codex Portugal

Tel: 2187004/2187096

Singapore Pertama Audio Pte. Ltd. Alexandra Distripark Blk 4, No. 03-39 Pasir Panjang Road,

Singapore 0511 Tel: 278-4411

Gaplasa S.A. Conde de Torroja, 24, 28022 Madrid Tel: 747-7777 Sweden Sveriges Hi-Fi Klubb Box 5116, S-402 23 Göteborg, Tel: 031-200040

Diethelm & Co., AG. Eggbühlstrasse 28, 8052 Zürich Tel: 01-3013030 Switzerland Taiwan B.O.C.

Taiwan Kolin Co., Ltd. 8th Fl., 83, Sec. 1, Chung-king S. Rd., Taipei, Taiwan R.O.C. Tel; (02) 314-3151 (20 Lines), Fax; (886) 02-3614037 Telex: 11102 TKOLIN

Mahajak Development Co., Ltd. 6th FL., Mahajak Building, 46 Sukhuhvit 3 (Nananua), Klongtaoy, Thailand

Prakranong, Bangkok 10110 Tel: 256-0000 Hayden Laboratories ltd. Hayden House, Chiltern Hill, Chalfont St.

United Kingdom & Eire Peter Gerrards Cross, Bucks. SL9 9UG Tel: 0753-888447

Denon America Inc. 222 New Road Parsippany, NJ07054, U.S.A., Tel: 201-882-7490,

Fax: 201-575-1213

- \* If there is no service center in your local area, consult the outlet where the equipment was purchased.
- · Falls sich in Ihrer Nähe keine Kundendienststelle befindet, wenden Sie sich an das Geschäft, wo das Gerät gekauft wurde.
- \* S'il n'y a aucun centre de service dans votre région, consultez votre revendeur.
- \* Se nella Vostra zona non c'è il centro di servizio, rivolgete VI al negozio dove avete acquistato l'apparecchio.
- \* Si no hay centros de servicio en su área local, consulte en donde haya comprado su equipo.
- · Als er in uw streek geen reparatie-inrichting is, neemt u kontakt op met de vestiging waar u de apparatuur gekocht heeft.
- \* Saknas servicecentral i närheten där du bor, bör kontakt tas medåterförsäljaren för apparaten.
- . Se não existir um centro de serviços em sua área local, consulta o estabelecimento onde o equipamento foi adquirido.

H20701

AVC-2530

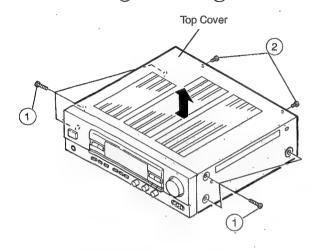
МЕМО

# DISASSEMBLY

(To reassemble reverse disassembly)

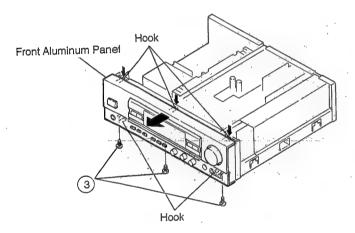
# 1. Top Cover

Remove 2 screws (2) and 6 screws (1).



# 2. Front Aluminium Panel

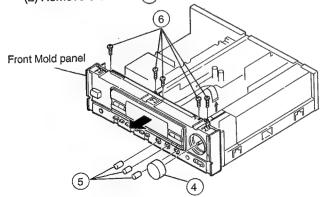
Remove 3 screws 3 and undo Hooks at 5 upper and lower places.



# 3. Front Mold Panel

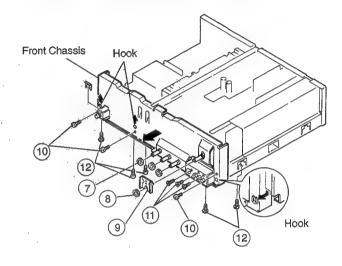
(1) Pull out Master Volume knob 4 and 3 Round knobs 5.

(2) Remove 5 screws (6).



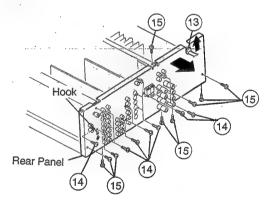
# 4. Front Chassis

- (1) Remove 3 nuts 7, nut 8, and Bracket 9.
- (2) Remove 3 lower screws (10) , 3 lower screws (11) , and 5 bottom screws (12) .
- (3) Remove Hooks at 3 places in arrow direction.



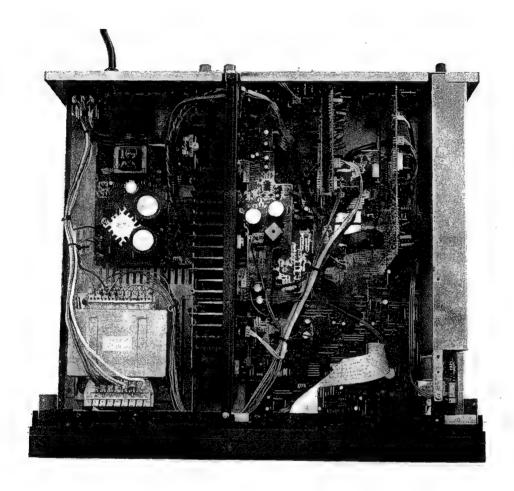
# 5. Rear Panel

- (1) Disconnect Cord Bush (13) .
- (2) Remove 16 screws (4) fixing terminals, and 10 screws (15) fixing panel.
- (3) Remove Hooks in arrow direction.



# **WIRE ARRANGEMENT**

In case wires require unclamping or loosening to move the location to perform adjustment or part replacement, be sure to arrange them neatly to restore properly in the same location as they were originally placed. Or, it may occasionally cause to occur a noise.



# **ADJUSTMENT**

# Initiating (Memory clearing) Method

To clear memory contents of microcomputer and restore to the initial state, take the following steps;

- 1. Press power switch, turn off power of the unit, and set to standby mode.
- 2. Pull out power cord from wall outlet temporarily.
- 3. Insert power cord into outlet while simultaneously pressing three keys of BYPASS, MODE and DID CENTER MODE.
- 4. Press power switch to confirm that memory contents are cleared.

By completion of the above, the initial state is restored. In case the memory can not be cleared due to some reasons, repeat steps 1 through 3.

# AUDIO SECTION

# Idling Current (1U-2540D-1)

Required measurement equipment: DC Voltmeter

# Arrangement

(1) Avoid direct blow from an air conditioner or an electric fan, and adjust the unit at normal room temperature 15°C ~ 30°C. (59°F ~ 86°F).

### (2) Presetting

POWER (Power source switch)

MODE (Mode buttton)

• FUNCTION (Function button)

VOLUME (Volume control)

CENTER VOLUME (Center volume control)

BASS, TREBLE (Tone control)

SPEAKERS (Speaker terminal)

 $\rightarrow$  OFF

→ BY PASS

 $\rightarrow$  CD

→ 0: fully counterclockwise ( min.)

→ -12dB

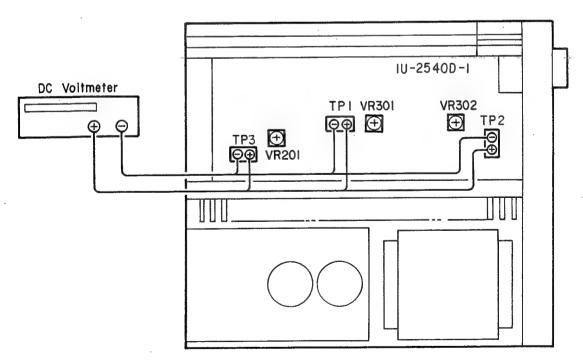
→ 0: (Controls to center)

→ No load (Do not connect speaker, dummy resistor, etc.)

# Adjustment

- (1) Remove top cover and set VR201, VR301 and VR302 of 1U-2540D-1 (Main Unit) at counterclockwise fully.
- (2) Connect DC Voltmeter to test points (Lch T.P.1, Rch T.P.2, CENTER ch T.P.3).
- (3) Connect power cord to AC Line, and turn power switch "ON".
- (4) Allow 15 minutes, and turn VR301, VR302 and VR201 clockwise ( ) and adjust the TEST PO!NTS voltage to  $1.5 \text{ mV} \pm 1.0 \text{ mV DC}.$
- (5) After 2 minutes from preset, turn VR301, VR302 and VR201 to set the voltage to 3 mV  $\pm$  1.0mV DC.

# 1U-2540D-1 Main Unit (Component Side)



# **SEMICONDUCTOR**S

# • IC's

Note)

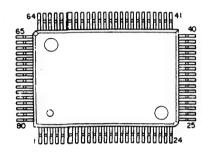
Indications before IC numbers denote P.W.B. Name.

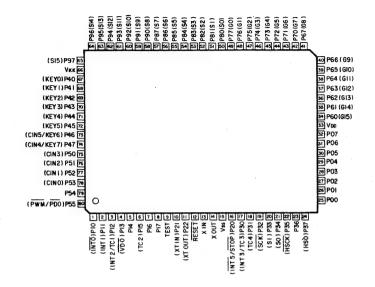
MA : Main Amp P.W.B. Unit : Power Input P.W.B. Unit PO VI : Video P.W.B. Unit

SU : Surround P.W.B. Unit

TMP87CM70AF-6073

(MA:IC802)





# **TMP87CM70AF Terminal Function**

| Pin | Terminal Name   | 0/1 | Logic    | Initial Setting | Usage  |
|-----|-----------------|-----|----------|-----------------|--|
| 1   | P10(INTO)       | 1   | L*       | _               | Power breakdown; Break down detect input (*L at Breakdown) |
| 2   | P11(INT1)       | ı   | H*       | _               | PROTECTION: PROTECTION INPUT (*H at detect mode)           |
| 3   | P12(INT2/TC1)   | 0   | H*       | L               | RESET; FL control ("H" at Reset) FL Driver control         |
| 4   | P13(DV0)        | ı   | _        | _               | MODE Shift 1 (Shift of AVC/AVR MODE)                       |
| 5   | P14             | 0   | Н        | L               | DM1  |
| 6   | P15(TC2)        | 0   | Н        | L               | DM2 Dolby-Prologic Control                                 |
| 7   | P16             | 0   | Н        | L               | DM3 SSM2126  |
| 8   | P17             | 0   | Н        | L               | DM4 J  |
| 9   | TEST            | 1   | _        | _               | Connect to GND   |
| 10  | P21(XTIN)       | 0   | Н        | L               | CM1 Dolby-Prologic Control                                 |
| 11  | P22(XTOUT)      | 0   | Н        | L               | CM2 SSM2126  |
| 12  | RESET           | 1   | L        | -               | RESET; Microcomputer reset Input                           |
| 13  | XIN             | ı   | _        | _               | Oscillator connection (8MHz)                               |
| 14  | XOUT            | 0   | _        | _               | Oscillator connection (onn 12)                             |
| 15  | Vss             | PW  | <b>-</b> | _               | OV (GND)   |
| 16  | P20 (INT5/STOP) | ı   | _        | _               | MODE Shift 2 (Shift of OEM MODE)                           |
| 17  | P30 (INT3/TC3)  | ı   | L        | _               | REMOTE: REMOTE Control reception signal input              |
| 18  | P31(TC4)        | 0   |          | Z               | Not used   |
| 19  | P32(SCK)        | 0   |          | Z               | Not used   |
| 20  | P33(SI)         | 0   |          | Z               | Not used   |
| 21  | P34(SO)         | 0   |          | Z               | Not used   |
| 22  | P35(HSCK)       | 0   | L        | Н               | BCK 7  |
| 23  | P36             | 0   | Н        | L               | WCK DSP Control (F71002B)                                  |
| 24  | P37(HSO)        | 0   | L        | Н               | CD   |
| 25  | P00             | 0   | Н        | L               | CK 7   |
| 26  | P01             | 0   | H*       | L               | CE Audio I/O, Surround (*H at inhibit Mode)                |
| 27  | P02             | 0   | Н        | L               | DATA (LC7821,7822)   |

| Pin | Terminal Name | 0/1 | Logic | Initial Setting | Usage  |
|-----|---------------|-----|-------|-----------------|--|
| 28  | P03           | 0   | Н     | L               | СК   |
| 29  | P04           | 0   | Н     | L               | DATA Electronic Volume control (TC9176P) CENTER CH |
| 30  | P05           | 0   | Н     | L               | ST1 J  |
| 31  | P06           | 0   | L     | Н               | CK FL Driver Control                               |
| 32  | P07           | 0   | L     | Н               | DATA (*L at data send mode) (MSC1937)              |
| 33  | VDD           | PW  | _     | _               | +5V  |
| 34  | P60(G15)      | 0   | Н     | L               | VOL.UP Motor drive control                         |
| 35  | P61(G14)      | 0   | Н     | L               | VOL.DOWN LB1639                                    |
| 36  | P62(G13)      | 0   | H*    | Н               | LED STAND BY LED (*H at lit time)                  |
| 37  | P63(G12)      | 0   | Н     | L               | AVSE AVSE Control                                  |
| 38  | P64(G11)      | 0   | L     | Н               | CINEMA; CINEMA Equalizer control                   |
| 39  | P65(G10)      | 0   | _     | Z               | Not used   |
| 40  | P66(G9)       | 0   | _     | L               | Not used   |
| 41  | P67(G8)       | 0   | _     | Z               | Not used   |
| 42  | P70(G7)       | 0   | _     | Z               | Not used   |
| 43  | P71(G6)       | 0   | _     | Z               | Not used   |
| 44  | P72(G5)       | 0   | Н     | L               | FRONT Speaker relay control                        |
| 45  | P73(G4)       | 0   | _     | Z               | Not used   |
| 46  | P74(G3)       | 0   | Н     | L               | SP-REAR Speaker relay control                      |
| 47  | P75(G2)       | 0   | Н     | L               | SP-CENTER SP-CENTER                                |
| 48  | P76(G1)       | 0   | Н     | L               | H.P., PRE MUTE Premute control                     |
| 49  | P77(G0)       | 0   | _     | L               | Not used   |
| 50  | P80(S0)       | 0   | Н     | L               | POWER Power relay control                          |
| 51  | P81(S1)       | 0   | _     | L               | Not used   |
| 52  | P82(S2)       | 0   | L     | Н               | KS1  |
| 53  | P83(S3)       | 0   | L     | Н               | KS2  |
| 54  | P84(S4)       | 0   | L     | Н               | KS3 Key Scan Strobe                                |
| 55  | P85(S5)       | 0   | L     | Н               | KS4  |
| 56  | P86(S6)       | 0   | L     | Н               | KS5  |
| 57  | P87(S7)       | 0   | L     | Н               | KS6  |

# **AVR MODE**

Usage

Key Scan Receive

(BA7625, 7626)

(BA7625, 7626)

VIDEO INPUT/REC CONTROL

VIDEO REC OUT CONTROL

| Pin | Terminal Name  | 0/1 | Logic | Initial Setting | ·.<br>Usage   |
|-----|----------------|-----|-------|-----------------|---|
| 73  | P46(CIN5/KEY6) | 0   | Н     | L               | CK TUNER PLL Control  |
| 74  | P47(CIN4/KEY7) | 0   | Н     | L               | ST \ (LM7001)   |
| 75  | P50(CIN3)      | 0   | Н     | L               | DATA  |
| 76  | P51(CIN2)      | 1   | L*    | _               | TUNED signal input (* L at reception)   |
| 77  | P52(CIN1)      | ı   | L*    | -               | STEREO signal input (* L at STEREO reception)   |
| 78  | P53(CIN0)      | 0   | L*    | L               | ST/MONO TUNER STEREO/MONO Switching (*Lat STEREO reception) "L' during auto tuning "H' during manual tuning |
| 79  | P54            | 0   | H*    | L               | TUNER MUTE (*Hat MUTE mode)   |

# NJM2229 (VI: IC302)



# SSM-2126 (SU: IC601)

Terminal Name

Pin

58 P90(S8)

59 P91(S9)

60 P92(S10)

61 P93(S11)

62 P94(S12)

63 P95(S13)

64 P96(S14)

65 P97(S15)

67 P40(KEY0)

68 P41(KEY1)

69 P42(KEY2)

72 P45(KEY5)

P43(KEY3)

P44(KEY4)

66 VKK

70

71

Logic Initial S

I L - KA1

I L — KA2

I L — KA3

I L — KA4

I L — KA5

O - Z Not Used

O — Z Not Used

O — Z Not Used

PW - - VKK -15V

O L H B

OLHC

OLHD

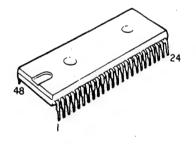
O L H E

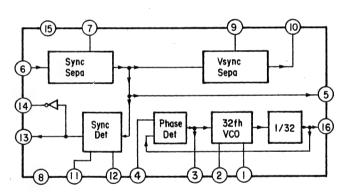
80 P55(PWM/PD0) I H\* — Not Used

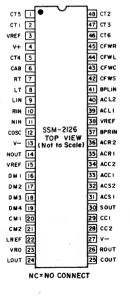
O L H Not Used

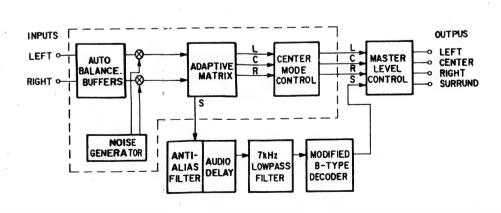
O L H A VIDEO INPUT CONTROL

Q



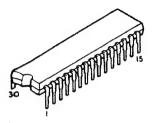




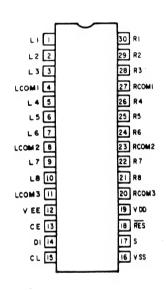


31

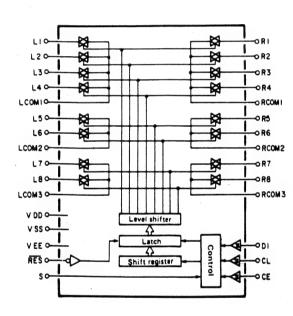
# LC7821 (PO: IC153, 155) LC7822 (PO: IC154)(SU: IC602)



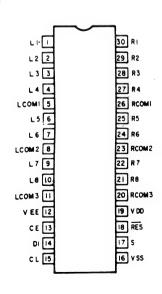
# LC7821



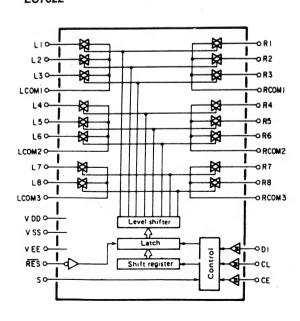
# LC7821



# LC7822

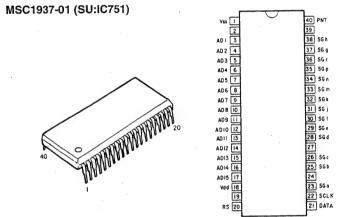


LC7822



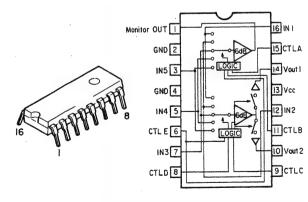
# Table of LC7821, LC7822 Terminal Function

| Name of Terminal                                    | 1/0 | Equivalent Internal Circuit |  | Functi                                      | on of Terr              | ninal      |                    |             |  |
|---|-----|-----------------------------|--|---|-------------------------|------------|--------------------|-------------|--|
| VDD, VSS, VEE                                       |     |                             | Power terminal.  |   |                         |            |                    |             |  |
| L1 ~ L8, R1 ~ R8<br>LCOM1 ~ LCOM4,<br>BCOM1 ~ BCOM4 | -   | Refer to block diagram      | In/Out terminal of anak  | og switch.                                  |                         |            | `                  |             |  |
| CL, DI, CE  | 1   |                             | Serial data input termir<br>CL = Clock input term<br>DI = Data input termi<br>CE = Chip enable ter | ninal.<br>nal.                              | er).                    |            |                    |             |  |
|   |     |                             | Selection terminal for u<br>Address will be shifted  | as per below tab                            | le when s               |            | S termina          | I to L or H |  |
|   |     |                             | Name of Item   | S Terminal                                  | AO                      | A1         | A2                 | A3          |  |
| s   |     |                             |  | L   | 0                       | 1          | 0                  | 1           |  |
|   |     |                             | LC7821   | Н   | 1                       | 1          | 0                  | 1           |  |
|   |     |                             | 1.07000  | L   | 0                       | 0          | 1                  | 1           |  |
|   |     |                             | LC7822   | Н   | 1                       | 0          | 1                  | 1           |  |
|   |     |                             |  |   |                         |            |                    |             |  |
| RES   | . 1 | □                           | Reset terminal. Condition of analog sw<br>When shift this terminal                                 | vitch is not fixed a<br>at to L, all analog | at the time<br>switches | of turning | g on the p<br>DFF. | oower.      |  |



| Pin No. | Terminal Function  |
|---------|--------------------|
| 1       | Power Supply (+5V) |
| 3       | Digit 1 Output     |
| 1       | ì                  |
| 17      | Digit 17 Output    |
| 18      | GND                |
| 19      |                    |
| 20      | POWER-ON-RESET     |
| 21      | Data Input         |
| 22      | Shift Clock Input  |
| 23      | Segment a Output   |
| ł       | ł                  |
| 38      | Segment h Output   |
| 39      |                    |
| 40      | POINT Output       |

# BA7625 (VI: IC901, 952) BA7626 (VI: IC951)



| Α | В | E | MONITOR OUT |
|---|---|---|-------------|
| L | L | * | IN 1        |
| Н | L | * | IN 2        |
| L | Н | * | IN 3        |
| Н | Н | L | IN 4        |
| Н | Н | Н | IN 5        |

| - 1 |   |   |   |         |
|-----|---|---|---|---------|
|     | С | D | E | V OUT 1 |
|     | L | L | * | _       |
|     | Н | L | * | IN 2    |
|     | L | Н | * | IN 3    |
|     | Н | Н | L | IN 4    |
|     | Н | Н | Н | IN 5    |

|   | С   | D | Ε  | V OUT 2 |
|---|-----|---|----|---------|
|   | L   | L | *  | IN 1    |
| - | Н   | L | ** |         |
|   | , L | Н | *  | IN 3    |
|   | Н   | Н | L  | IN 4    |
|   | Н   | Н | Н  | IN 5    |

Note 1: \* mark means that feasible for either H or L.

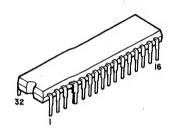
Note 2: Each input terminal is provided with sink chip clamp (BA7625)

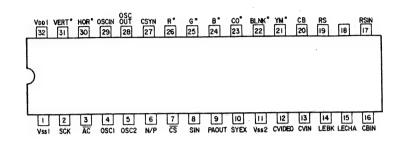
Each input terminal takes

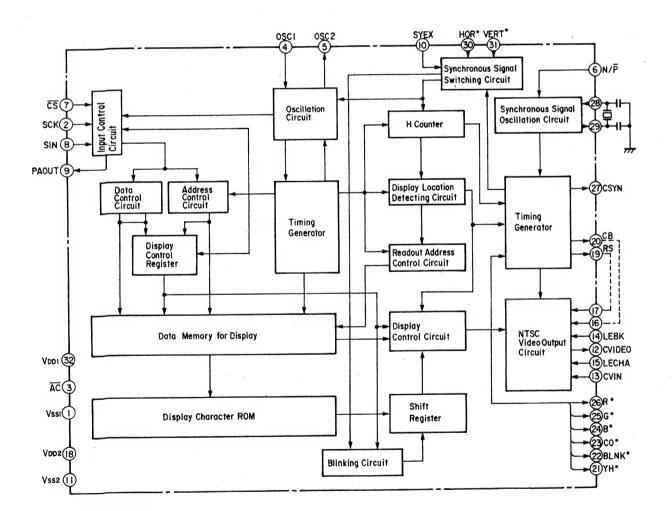
20kohm at the end. (BA7626)

Truth value table

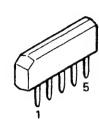
# M50554-001SP (✔I: IC903)

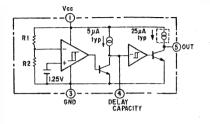






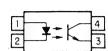
# M51953B (MA: IC801)





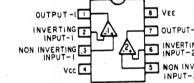
# TLP521-1 (BL) (MA: 201, 301, 302) INFRARED LED + PHOTO TRANSISTOR

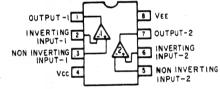




- 1. Anode
- 2. Cathode
- 3. Emitter
- 4. Collector

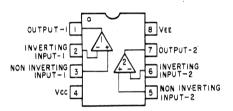
# M5218AP (MA: IC303, 262) (SU: IC608~610, 701, 702, 703, 706, 705) (PO: IC152, 407, 551)





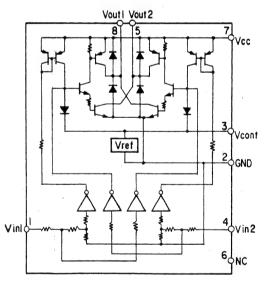
NJM2068DDC (PO: IC151) NJM2082D (SU: IC606, 607) (MA: IC262)



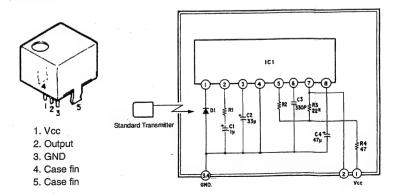


LB1639 (SU: IC704)





# • OTHERS SBX1610-52 (Remote Control Receiver) (VI: IC752)



: CX20106A chip IC1 : Pin photodiode chip D1

: Aluminum electrolytic capacitor C1; C2, C4 : SL characteristic ± 5% C3

R1 : Gain control resistor

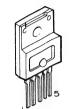
: fo control resistor (using ± 1%) R2

R (Other than above items)

: ± 5%

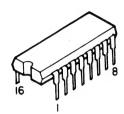
33

SI-18752 (PO: IC401, 402)

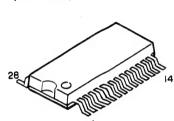


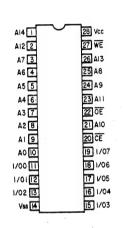
1. +IN 2. -IN 3. -VEE 4. Output 5. +Vcc

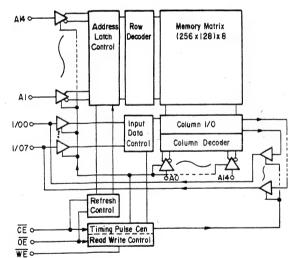
TC9176P (SU: IC605)



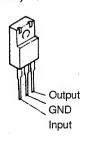
HM65256BLFP-1 0T (SU: IC604)

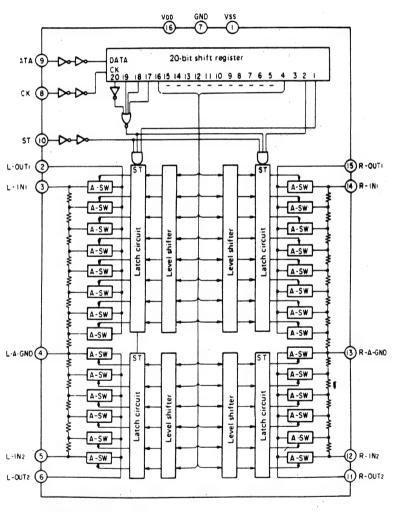




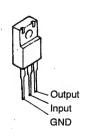


NJM7805FA(S) (SU: IC611) (VI: IC904) NJM7815FA(S) (PO: IC405) NJM7812FA(S) (TU: IC005) NJM7806FA(S) (PO: IC501)

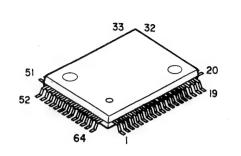


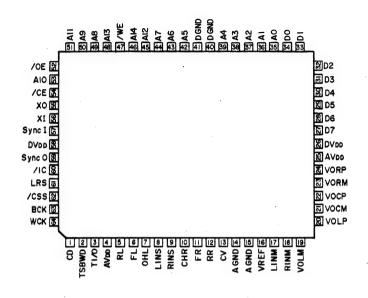


NJM7915FA (PO: IC406)

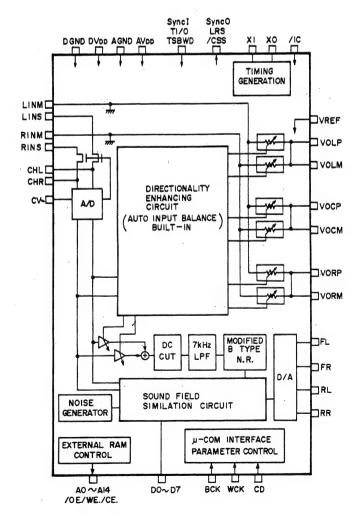


F71002B (SU: IC603)



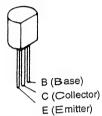


# **BLOCK DIAGRAM**

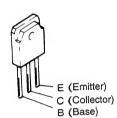


# • TRANSISTORS

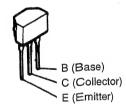




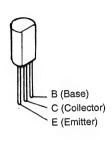
2SA1491 (O/P/Y) (Z) 2SC3855 (O/P/Y) (Z)



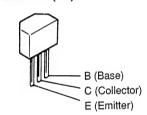
RN1202 RN1204 RN2201



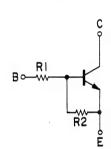




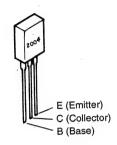
2SA1048 (GR),(Y/GR) 2SC2458 (BL)



RN1202 RN1204

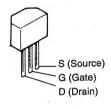


|        | R1      | R2      |
|--------|---------|---------|
| RN1202 | 10 kohm | 10 kohm |
| RN1204 | 47 kohm | 47 kohm |



2SB1328 (P) 2SD2004 (P)

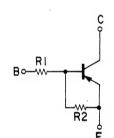
2SK184 (GR)/(BL)



RN2201

• POSISTOR

(PO: P460)



|  |        | R1       | R2       |
|--|--------|----------|----------|
|  | RN2201 | 4.7 kohm | 4.7 kohm |
|  |        |          |          |

# • IC PROTECTORS

ICP-N15 (PO: IC503) ICP-N20 (PO: IC403, 404) (VI: IC905)





PTH9M04BB222TS2F333

# • DIODES (included LED)

| 1SS270A |  |
|---------|--|
| 1S2076A |  |
|         |  |





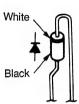


DSM1D2 (Type 3)









SFOR1A42 (Thyristor)

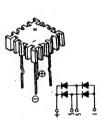


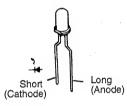
S4VB20F

(VI: D401)

D5FB20 (4001) (PO: D509)

SEL1210R (Red) (SU: LD751)



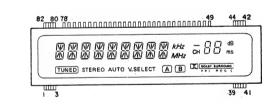


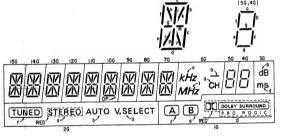
# • FL DISPLAY FIP14PM8

(Anode)

(Gate)

(Part No.: 3934181000)(FL751)





| 11 | 21 | 31 | 41 | 51 |  |
|----|----|----|----|----|--|
| 12 | 22 | 32 | 42 | 52 |  |
| 13 | 23 | 33 | 43 | 53 |  |
| 14 | 24 | 34 | 44 | 54 |  |
| 15 | 25 | 35 | 45 | 55 |  |
| 16 | 26 | 36 | 46 | 56 |  |
| 17 | 27 | 37 | 47 | 57 |  |

| (UPPER)                   |          |              |              |              |               |              |              |              |              |              |              |           |           |           |          |          |          |          |          |          |
|---------------------------|----------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|
| TERMINAL No.<br>ELECTRODE | 82<br>F1 | 81<br>F1     | 80<br>F1     | 79<br>NP     | 78<br>P<br>DP | 77<br>P<br>h | 76<br>P<br>g | 75<br>P<br>r | 74<br>P<br>p | 73<br>P<br>n | 72<br>P<br>m |           |           |           |          |          |          |          |          |          |
| TERMINAL No.<br>ELECTRODE | 71<br>P  | 70<br>P<br>i | 69<br>P<br>f | 68<br>P<br>e | 67<br>P<br>d  | 66<br>P<br>c | 65<br>P<br>b | 64<br>P<br>a | 63<br>15G    | 62<br>14G    | 61<br>13G    | 60<br>12G | 59<br>11G | 58<br>10G | 57<br>9G | 56<br>8G | 55<br>7G | 54<br>6G | 53<br>5G | 52<br>4G |
| TERMINAL No.              |          |              |              |              |               |              |              |              |              |              | 51<br>3G     | 50<br>2G  | 49<br>1G  | 48<br>NP  | 47<br>NP | 46<br>NP | 45<br>NP | 44<br>F2 | 43<br>F2 | 42<br>F2 |

| (LOWER)                   |          |          |          |          |          |          |          |          |          |          |                  |                  |          |          |          |          |          |          |          |          |
|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------------|------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| TERMINAL No.<br>ELECTRODE |          |          |          |          |          |          |          |          | (27)     | (37)     | 32<br>NP<br>(47) | 33<br>NP<br>(57) | 34<br>NP | 35<br>NP | 36<br>NP | 37<br>NP | 38<br>NP | 39<br>F2 | 40<br>F2 | 41<br>F2 |
| TERMINAL No.<br>ELECTRODE | 12<br>NP | 13<br>NP | 14<br>NP | 15<br>NP | 16<br>NP | 17<br>NP | 18<br>NP | 19<br>NP | 20<br>NP | 21<br>NP | 22<br>NP         | 23<br>NP         | 24<br>NP | 25<br>NP | 26<br>NP | 27<br>NP | 28<br>NP | 29<br>NP | 30<br>NP | 31<br>NP |
| TERMINAL No.<br>ELECTRODE | 1<br>F1  | 2<br>F1  | 3<br>F1  | 4<br>NP  | 5<br>NP  | 6<br>NP  | .7<br>NP | 8<br>NP  | 9<br>NP  | 10<br>NP | 11<br>NP         | 12               |          |          |          |          |          |          |          |          |

Notes: F: Filament

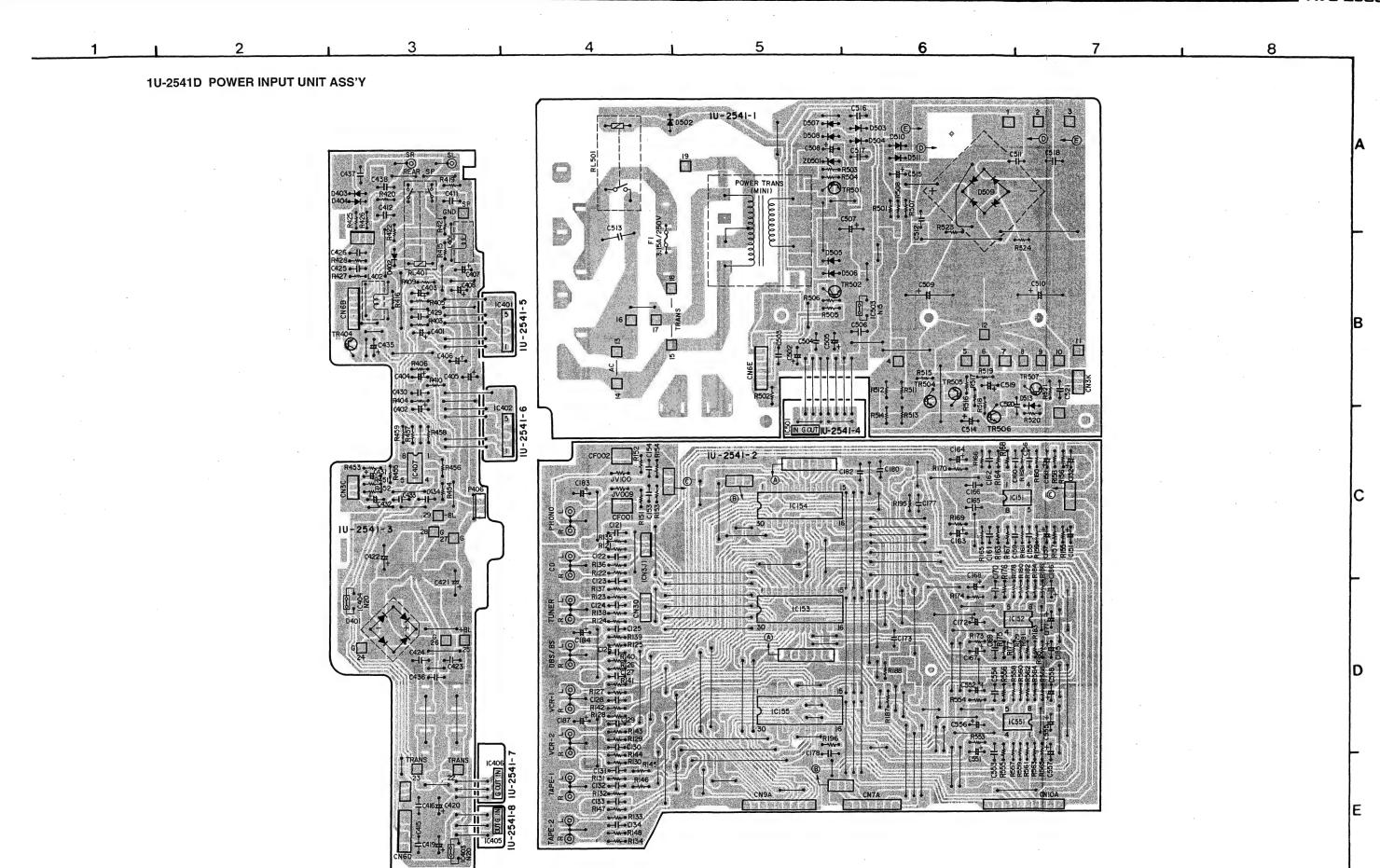
G: Grid P: Anode

35

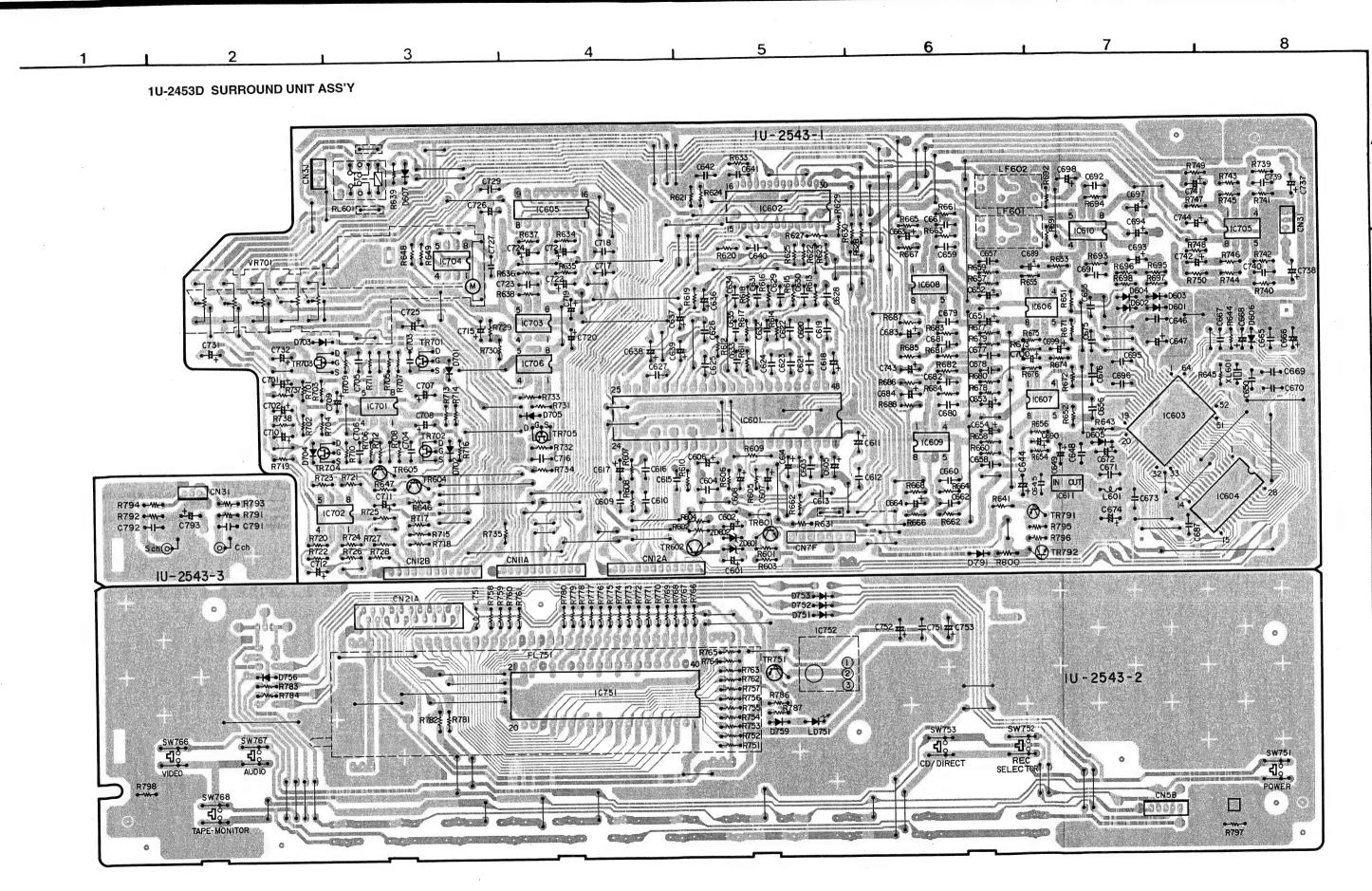
8

TR215

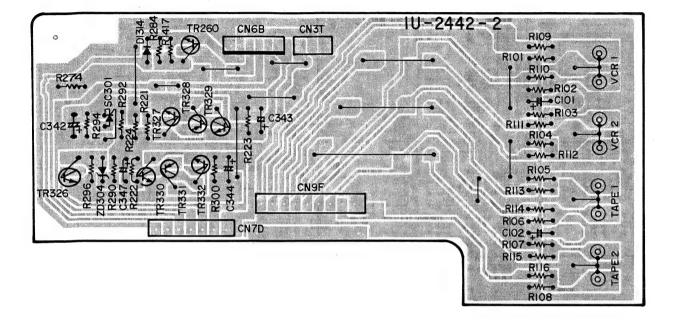
U-2540-7



3 1U-2542D VIDEO UNIT ASS'Y C922 \*# R983 - W-R990 -W-R989 R986 H C965 H R984 •-M-• R W B R935 R934 R931------ L903 C972 R936 R939 R938 R937 D905 10-2542-2 • R922 C916 C915 C915 R921 R950 R949 110-2542-3 R929 -H-C917 TR905 •-₩-•R920 **-**H-C914 ------R927 TR908 R945 R945 C913 R919 C912 **TR904** C951# -W-R918 -11-C911 **1** R910 VDP/DBS



1 U-2442B AUDIO, REC UNIT ASS'Y



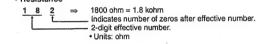
### NOTE FOR PARTS LIST

- Part indicated with the mark " " are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.) WARNING:

Parts marked with this symbol 🛕 📖 have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

### Resistors

| ı | Ex.:                     | RN<br>Type  | 14K<br>Shape<br>and per-<br>formance |                                      | Res<br>and | ist-        | G<br>Allowab<br>error                       |    | FR<br>Others   |  |
|---|--------------------------|---|--------------------------------------|--------------------------------------|------------|-------------|---|----|--|--|
|   | RC:<br>RS:<br>RW:<br>RN: | Carbon<br>Compositi<br>Metal oxid<br>Winding<br>Metal film<br>Metal mix | ie film                              | 2E :<br>2H :<br>3A :<br>3D :<br>3F : |            | G<br>J<br>K | : ±1%<br>: ±2%<br>: ±5%<br>: ±10%<br>: ±20% | NB | : Pulse-resistant type<br>: Low noise type<br>: Non-burning type<br>: Fuse-resistor<br>: Lead wire forming |  |



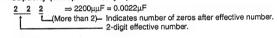
### \* Capacity (electrolyte only)

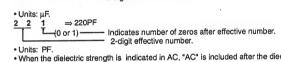
| 2 2 ⇒        | 2200µF Indicates number of zeros after effective number. 2-digit effective number. |
|--------------|--|
| • Units: μF. | 2 digit directive realises.  |
| 2 R 2 ⇒      | 2.2μF  |
| T            | 1-digit effective number.  |
|              | <ul> <li>2-digit effective number, decimal point indicated by R.</li> </ul>        |

### Capacitors

| Type Shape and performance   | 1H<br>Dielectric<br>strength  | 2R2 M<br>Capacity All<br>err  | owable Others  |
|--|---|---|--|
| CE: Aluminum foil electrolytic CA: Aluminum solid electrolytic CS: Tantalum electrolytic CQ: Film CK: Ceramic CC: Ceramic CP: Oil CM: Mica CF: Metallized CH: Metallized | 0J:6.3V  1A:10V  1C:16V 1E:25V 1V:35V  1H:50V 2A:100V 2B:125V 2C:160V 2D:200V 2E:250V 2H:500V | F : ±1% G : ±2% J : ±5% K : ±10% M : ±20% Z : +80% -20% P : +100% -0% C : ±0.25pF D : ±0.5pF = : Others | HS: High stability type BP: Non-polar type HR: Ripple-resistant type DL: For charge and discharge HF: For assuring high frequency U: UL part C: CSA part W: UL-CSA type F: Lead wire forming |

### \* Capacity (except electrolyte)





Units: PF.
 When the dielectric strength is indicated in AC, "AC" is included after the dielectric strength value.

# PARTS LIST OF P.W. BOARD 1U-2540D MAIN AMP UNIT

| Ref. No.                 | Part No.                     | Part Name                    | Remarks           | Ref. No.   | Part No.  | Part Name  | Remarks                                 |
|--------------------------|------------------------------|------------------------------|-------------------|--|---|--|---|
| SEMICONI                 | DUCTORS                      | ROUP                         |                   | ⚠ R209   | 241 2380 963                                    | Carbon Film 2.2kohm1/4W(NB)                          | RD14B2E222JNBS                          |
|                          | 262 0874 009                 | IC TLP521-1 (BL)             |                   | <b>⚠</b> R217  | 241 2377 976                                    | Carbon Film 130ohm 1/4W(NB)                          | RD14B2E131JNBS                          |
| IC201                    | 263 0654 002                 | IC NJM2082D                  |                   | <b>№</b> R219  | 241 2377 976                                    | Carbon Film 130ohm 1/4W(NB)                          | RD14B2E131JNBS                          |
| IC261<br>IC262           | 263 0654 002                 | IC M5218AP                   |                   | <u> </u>   | 241 2315 967                                    | Fusible 68ohm 1/4W                                   | RD14B2E680GFRS                          |
| IC301,302                | 262 0874 009                 | IC TLP521-1 (BL)             |                   | <u> </u>   | 241 2378 920                                    | Carbon Film 220ohm 1/4W(NB)                          | RD14B2E221JNBS                          |
| IC301,302                | 263 0711 000                 | IC M5218AP                   |                   | <b>⚠</b> R237  | 244 2043 982                                    | Metal Oxide 0.22ohm 1W                               | RS14B3AR22JNBS(S                        |
| IC801                    | 263 0423 000                 | IC M51953B                   |                   | ⚠ R239   | 244 2043 982                                    | Metal Oxide 0.22ohm 1W                               | RS14B3AR22JNBS(S                        |
| IC802                    | 262 1756 100                 | IC TMP87CM70AF-6073          | μ-com             | <u> </u>   | 244 2043 982                                    | Metal Oxide 0.22ohm 1W                               | RS14B3AR22JNBS(S                        |
| 10002                    | 202 1730 100                 |                              | 1                 | <u> </u>   | 244 2043 982                                    | Metal Oxide 0,220hm 1W                               | RS14B3AR22JNBS(S                        |
| TR201                    | 271 0094 919                 | Transistor 2SA970(BL)        |                   | ⚠ B249   | 241 2380 950                                    | Carbon Film 2kohm 1/4W(NB)                           | RD14B2E202JNBS                          |
| TR203                    | 271 0094 919                 | Transistor 2SA970(BL)        |                   | <u> </u>   | 241 2380 950                                    | Carbon Film 2kohm 1/4W(NB)                           | RD14B2E202JNBS                          |
| TR205                    | 271 0131 924                 | Transistor 2SA988(E/F)       |                   | <u></u> R253   | 244 2051 987                                    | Metal Oxide 4.7ohm 1W                                | RS14B3A4R7JNBS(<br>RD14B2E222JNBS       |
| TR207                    | 273 0235 923                 | Transistor 2SC1841(E/F)      |                   | <u>↑</u> R307–310  | 241 2380 963                                    | Carbon Film 2.2kohm1/4W(NB)                          | 是是一个国际的地方。这个时间的现在分词。                    |
| TR209                    | 273 0235 923                 | Transistor 2SC1841(E/F)      |                   | A R317-320   | 241 2377 976<br>241 2315 967                    | Carbon Film 130ohm 1/4W(NB)<br>Fusible 68ohm 1/4W    | RD14B2E131JNBS<br>RD14B2E680GFRS        |
| TR211                    | 273 0235 923                 | Transistor 2SC1841(E/F)      |                   | <u>∧</u> R325,326<br>∧ R331,332  | 241 2378 920                                    | Carbon Film 220ohm 1/4W(NB)                          | RD14B2E221JNBS                          |
| TR213                    | 274 0151 000                 | Transistor 2SD2004(P)        |                   | Application of the second of t | 244 2043 982                                    | Metal Oxide 0.22ohm 1W                               | RS14B3AR22JNBS(                         |
| TR215                    | 273 0198 905                 | Transistor 2SC1815(Y)        |                   |  | 241 2380 950                                    | Carbon Film 2kohm 1/4W(NB)                           | RD14B2E202JNBS                          |
| TR217                    | 272 0107 906                 | Transistor 2SB1328(P)        |                   | ⚠ R353,354   | 244 2051 987                                    | Metal Oxide 4.7ohm 1W                                | RS14B3A4R7JNBS(                         |
| TR223                    | 273 0235 923                 | Transistor 2SC1841(E/F)      |                   | ↑ R801   | 241 2376 964                                    | Carbon Film 47ohm 1/4W(NB)                           | RD14B2E470JNBS                          |
|                          | 273 0317 906                 | Transistor 2SC2458(BL)       |                   | ⚠ R817-820   | 244 2051 958                                    | Metal Oxide 220ohm 1W                                | RS14B3A221JNBS(S                        |
| TR301~304                | 271 0094 919                 | Transistor 2SA970(BL)        |                   | ⚠ R823   | 241 2378 920                                    | Carbon Film 220ohm 1/4W(NB)                          | RD14B2E221JNBS                          |
| TR305,306                | 271 0131 924                 | Transistor 2SA988(E/F)       |                   | ↑ R829,830   | 244 2055 996                                    | Metal Oxide 1.2kohm 1W                               | RS14B3A122JNBS(5                        |
| TR307~312                | 273 0235 923                 | Transistor 2SC1841(E/F)      |                   | <b>↑</b> R835  | 241 2378 920                                    | Carbon Film 220ohm 1/4W(NB)                          | RD14B2E221JNBS                          |
| TR313,314                | 274 0151 000                 | Transistor 2SD2004(P)        |                   | ₩ R839   | 241 2387 940                                    | Carbon Film 4,7ohm1/4W(NB)                           | RD14B2E4R7JNBS                          |
|                          | 273 0198 905                 | Transistor 2SC1815(Y)        |                   | A R859:860   | 244 2043 937                                    | Metal Oxide 10ohm 1W                                 | RS14B3A100JNBS(5                        |
|                          | 272 0107 906                 | Transistor 2SB1328(P)        |                   | <b>₹</b> R865  | 244 2043 937                                    | Metal Oxide 10ohm 1W                                 | RS14B3A100JNBS(S                        |
| TR323,324                | 273 0235 923                 | Transistor 2SC1841(E/F)      |                   | 1012 14 14 14 16 16 16 16 16 16 16 16 16 16 16 16 16   | a sea de la |  |   |
| TR325                    | 271 0131 924                 | Transistor 2SA988(E/F)       |                   | VR201  | 211 6093 909                                    | Semi Fixed Resistor 6.8kohm                          | V06PB682                                |
| TR801                    | 272 0053 908                 | Transistor 2SB647A(C)        | Pulls in Decision | VR301,302  | 211 6093 909                                    | Semi Fixed Resistor 6.8kohm                          | V06PB682                                |
| TR802                    | 269 0024 902                 | Transistor RN2201            | Built in Resistor | VR305  | 211 0760 005                                    | Variable Resistor                                    | V1603V25FK                              |
| TR803                    | 269 0029 907                 | Transistor RN1204            | Built in Resistor |  |   |  |   |
| TR804,805                | 273 0317 906                 | Transistor 2SC2458(BL)       |                   | RA801  | 246 2052 063                                    | Resistor Array 1.5k×4                                | RK99==152JP4                            |
| TR806                    | 273 0253 918                 | Transistor 2SC2878(A/B)      |                   | RA802  | 246 2053 033                                    | Resistor Array 4.7k×5                                | RK99==472JP5                            |
| TR807                    | 271 0102 937                 | Transistor 2SA1015(GR/Y)     |                   | RA803  | 246 2053 004                                    | Resistor Array 10k×5                                 | RK99==103JP5                            |
| TR808~811                |                              | Transistor 2SC2458(BL)       |                   | RA804  | 246 2044 013                                    | Resistor Array 47k×6                                 | RK99==473JP6                            |
| TR812                    | 269 0025 901                 | Transistor RN1202(10k-10k)   |                   | RA805  | 246 2052 005                                    | Resistor Array 10k×4                                 | RK99==103JP4                            |
| D004                     | 070 0400 000                 | Diode 1SS270A                | '                 | RA806  | 246 2053 017                                    | Resistor Array 47k×5                                 | RK99==473JP5                            |
| D201                     | 276 0432 903<br>276 0049 914 | Diode 1S2076A                |                   |  |   |  |   |
| D203                     | 276 0049 914                 | Diode 1S2076A                |                   | CAPACIT  | ORS GROU  | P  |   |
| D205<br>D207             | 276 0432 903                 | Diode 1SS270A                |                   | l  |   | r  | 0.50.0000000000000000000000000000000000 |
| D251~256                 | 276 0432 903                 | Diode 1SS270A                |                   | C201   | 254 4260 980                                    | Electrolytic 10µF/50V                                | CE04W1H100M                             |
| D261,262                 | 276 0432 903                 | Diode 1SS270A                |                   | C203   | 253 1179 987                                    | Ceramic 470pF/50V                                    | CK45B1H471K                             |
| D301,302                 | 276 0432 903                 | Diode 1SS270A                |                   | C205   | 253 1179 945                                    | Ceramic 220pF/50V                                    | CK45B1H221K                             |
| D303~306                 | 276 0049 914                 | Diode 1S2076A                |                   | C207   | 255 1264 966                                    | Plastic Film 0.0033µF/50V                            | CQ93M1H332J(B)                          |
| D307,308                 | 276 0432 903                 | Diode 1SS270A                |                   | C209   | 254 4256 949                                    | Electrolytic 100µF/25V                               | CE04W1E101M<br>CQ93M1H222J(B)           |
| D801                     | 276 0553 905                 | Diode 1SR35-200A             |                   | C211   | 255 1264 940                                    | Plastic Film 0.0022µF/50V<br>Plastic Film 0.01µF/50V | CQ93M1H222J(B)                          |
| D804~810                 | 276 0432 903                 | Diode 1SS270A                |                   | C213   | 255 1265 936                                    | Ceramic 0.01µF/50V                                   | CK45F1H103Z                             |
| D812-815                 | 276 0432 903                 | Diode 1SS270A                |                   | C215   | 253 1181 904                                    | Ceramic 0.01µF/500V                                  | CC45SL2H100D                            |
| D816,817                 | 276 0049 914                 | Diode 1S2076A                |                   | C217   | 253 4470 900                                    | Ceramic 10pF/50V                                     | CC45SL1H100D                            |
| D818-820                 | 276 0432 903                 | Diode 1SS270A                |                   | C219<br>C221   | 253 4536 909<br>254 4260 948                    | Electrolytic 1µF/50V                                 | CE04W1H010M                             |
| D821                     | 276 0049 914                 | Diode 1S2076A                |                   | C221   | 253 1128 909                                    | Ceramic 220pF/500V                                   | CK45B2H221K                             |
| D822,823                 | 276 0432 903                 | Diode 1SS270A                |                   | C223   | 256 1034 979                                    | Metalized 0.1µF/50V                                  | CF93A1H104J                             |
| D825~830                 | 276 0432 903                 | Diode 1SS270A                |                   | C225   | 255 1265 936                                    | Plastic Film 0.01µF/50V                              | CQ93M1H103J(B)                          |
|                          |                              |                              |                   | C229   | 254 4262 917                                    | Electrolytic 10µF/63V                                | CE04W1J100M                             |
| ZD801                    | 276 0479 908                 | Zener Diode HZS20-1          | 20V               | C231   | 254 4262 917                                    | Electrolytic 10µF/63V                                | CE04W1J100M                             |
| ZD802                    | 276 0474 903                 | Zener Diode HZS12B-1         | 12V               | C261,262   | 254 4260 948                                    | Electrolytic 1µF/50V                                 | CE04W1H010M                             |
| ZD803                    | 276 0467 907                 | Zener Diode HZS9A-1          | 9V                | C261,262   | 254 4260 980                                    | Electrolytic 10µF/50V                                | CE04W1H100M                             |
|                          |                              |                              |                   | C264   | 253 1179 903                                    | Ceramic 100pF/50V                                    | CK45B1H101K                             |
| DECICTO                  | RS GROUP                     |                              |                   | C265   | 253 1181 904                                    | Ceramic 0.01µF/50V                                   | CK45F1H103Z                             |
|                          |                              | ·                            |                   | C266   | 254 4260 993                                    | Electrolytic 22µF/50V                                | CE04W1H220M                             |
| •                        |                              | Film ±5%1/4W Type. Refe      | er to the         | C267   | 253 1181 904                                    | Ceramic 0.01µF/50V                                   | CK45F1H103Z                             |
| Schemati                 | c Diagram fo                 | or those Parts.)             |                   | C268   | 253 4536 909                                    | Ceramic 10pF/50V                                     | CC45SL1H100D                            |
| 6. Tex. 448.0 3.0180.00m | 241 2380 963                 | Carbon Film 2.2kohm1/4W(NB)  | RD14B2E222JNBS    | C301,302   | 254 4260 980                                    | Electrolytic 10µF/50V                                | CE04W1H100 M                            |
| Ŋ R207                   | 241 2380 903                 | Carbon Firm Z.Z.Comm (4W(NO) |                   |  |   | •  |   |
|                          |                              |                              |                   |  |   |  |   |

| Ref. No.             | Part No.                     | Part Name  | Remarks                          | Ref. No.      | Part No.                     | Part Name                                    | Remarks                      | Q'ty  |
|----------------------|------------------------------|--|----------------------------------|---------------|------------------------------|--|------------------------------|-------|
| C303,304             | 253 1179 987                 | Ceramic 470pF/50V                                    | CK45B1H471K                      | OTHER P       | ARTS GROU                    | P  |                              |       |
| C305,306             | 253 1179 945                 | Ceramic 220pF/50V                                    | CK45B1H221K                      |               | _                            | (P.W.Board)                                  |                              | (1)   |
| C307,308             | 255 1264 966                 | Plastic Film 0.0033µF/50V                            | CQ93M1H332J(B)                   | L201          | 235 0068 004                 | Inductor 1mH                                 | •                            | 1     |
| C309,310             | 254 4256 949                 | Electrolytic 100µF/25V                               | CE04W1E101M                      | L301          | 235 0068 004                 | Inductor 1mH                                 |                              | 1     |
| C311,312             | 255 1264 940                 | Plastic Film 0.0022µF/50V<br>Plastic Film 0.01µF/50V | CQ93M1H222J(B)<br>CQ93M1H103J(B) | L302          | 235 0068 004                 | Inductor 1mH                                 |                              | 1     |
| C313,314             | 255 1265 936<br>253 1181 904 | Ceramic 0.01µF/50V                                   | CK45F1H103Z                      |               |                              |  | Front Contac                 | ا ۾ ا |
| C315,316             | 253 1181 904                 | Ceramic 10pF/500V                                    | CC45SL2H100D                     | RL801,802     | 214 9003 005                 | Relay  | Front , Center<br>Head Phone | 2 2   |
| C317,318<br>C319,320 | 253 4470 900                 | Ceramic 10pF/50V                                     | CC45SL1H100D                     | RL803,804     | 214 0162 000<br>204 8341 004 | Relay(A12W-K)<br>Head Phone Jack             | Gold Flash                   | 1 1   |
| C321,322             | 254 4260 948                 | Electrolytic 1µF/50V                                 | CE04W1H010M                      | l             | 204 8342 003                 | 3P Pin Jack(C-GND)                           | Gold Flash                   | lil   |
| C323,324             | 253 1128 909                 | Ceramic 220pF/500V                                   | CK45B2H221K                      |               | 204 8393 007                 | 4P Pin Jack(S-GND)                           | Pre out                      | 1     |
| C325,326             | 256 1034 979                 | Metalized 0.1µF/50V                                  | CF93A1H104J                      |               | 205 0484 014                 | 8P SP Terminal                               |                              | 1 1   |
| C327,328             | 255 1265 936                 | Plastic Film 0.01µF/50V                              | CQ93M1H103J(B)                   |               |                              |  |                              |       |
| C329~332             | 254 4262 917                 | Electrolytic 10µF/63V                                | CE04W1J100M                      | XL801         | 399 9018 003                 | Ceramic Vibrator                             | CST4.00MGW                   | 1     |
| C335                 | 255 1265 936                 | Plastic Film 0.01µF/50V                              | CQ93M1H103J(B)                   |               | 204.8427 009                 | S-Terminal (3.5)                             | V-AUX-S                      | 1     |
| C337,338             | 254 4260 980                 | Electrolytic 10µF/50V                                | CE04W1H100M<br>CK45B1H101K       |               | 204 8433 006                 | 2P Pin Tack (C-GND)                          | Rear Rec                     | 1     |
| C339,340             | 253 1179 903                 | Ceramic 100pF/50V<br>Electrolytic10µF/63V            | CE04W1J100M                      |               |                              |  |                              |       |
| C345                 | 254 4262 917                 | Electrolytic 4.7µF/35V                               | CE04W1V4R7M                      |               | 205 0190 036                 | 3P NH Conn. Base                             | For Test Point               | 3     |
| C351,352             | 254 4258 905<br>253 1179 903 | Ceramic 100pF/50V                                    | CK45B1H101K                      | CN3A          | 205 0343 032                 | 3P Conn. Base(KR-PH)                         |                              | 1     |
| C353,354<br>C355,356 | 255 1264 908                 | Plastic Film 0.001uF/50V                             | CQ93M1H102J(B)                   | CN3A<br>CN3C  | 205 0343 032<br>205 0343 032 | 3P Conn. Base(KR-PH)<br>3P Conn. Base(KR-PH) |                              | 1     |
| C355,356             | 256 1034 995                 | Metalized 0.15µF/50V                                 | CF93A1H154J                      | CN3C<br>CN3K  | 205 0343 032                 | 3P Conn. Base(KR-PH)                         |                              | ;     |
| C359,360             | 254 4260 948                 | Electrolytic 1µF/50V                                 | CE04W1H010M                      | CNSK          | 205 0343 032                 | 3P Conn. Base(KR-PH)                         | For Rear Pre                 | 1     |
| C361,362             | 255 1264 937                 | Plastic Film 0.0018µF/50V                            | CQ93M1H182J(B)                   | CN11A         | 205 0545 052                 | 11P Conn. Base                               |                              | 1     |
| C363,364             | 255 1265 949                 | Plastic Film 0.012µF/50V                             | CQ93M1H123J(B)                   | CN12A.B       | 205 0535 028                 | 12P Conn. Base                               |                              | 2     |
| C365,366             | 256 1034 953                 | Metalized 0.068µF/50V                                | CF93A1H683J                      | CN5A          | 205 0343 058                 | 5P Conn. Base(KR-PH)                         | ļ                            | 2     |
| C367,368             | 254 4260 935                 | Electrolytic 0.47µF/50V                              | CE04W1HR47M                      | CN14A         | 205 0809 013                 | 14P Conn. Base(9130)                         |                              | 1     |
| C371,372             | 253 1181 917                 | Ceramic 0.022µF/50V                                  | CK45F1H223Z                      | CN6D          | 205 0343 061                 | 6P Conn. Base(KR-PH)                         |                              | 1     |
| C801,802             | 254 4260 948                 | Electrolytic 1µF/50V                                 | CE04W1H010M                      | CN6E          | 205 0343 061                 | 6P Conn. Base(KR-PH)                         |                              | 1     |
| C803                 | 256 1034 979                 | Metalized 0.1µF/50V                                  | CF93A1H104J<br>CK45F1H103Z       | CN7A          | 205 0666 078                 | 7P Conn. Base(9130)                          |                              | 1     |
| C804                 | 253 1181 904                 | Ceramic 0.01µF/50V<br>Electrolytic 220µF/6.3V        | CE04W0J221M                      | CN7B          | 205 0666 078                 | 7P Conn. Base(9130)                          |                              | 1     |
| C805                 | 254 4250 932<br>256 1034 982 | Metalized 0.12µF/50V                                 | CF93A1H124J                      | CN7D          | 205 0666 078                 | 7P Conn. Base(9130)                          | 7P                           | 1     |
| C806<br>C807         | 254 4260 922                 | Electrolytic 0.33µF/50V                              | CE04W1HR33M                      | CN7F          | 205 0696 077                 |  | 15P                          | 1     |
| C808                 | 254 4260 948                 | Electrolytic 1µF/50V                                 | CE04W1H010M                      | CN15A<br>CN7B | 205 0808 014<br>205 0667 077 | 15P JL Conn.(BT-E)<br>7P Conn. Base-L (9130) | 7P                           | 1     |
| C810                 | 255 1265 936                 | Plastic Film 0.01µF/50V                              | CQ93M1H103J(B)                   | CN9F          | 205 0696 093                 | JL Conn.(BT-E)                               | 9P                           | 1     |
| C813                 | 259 0007 702                 | Back up 8200µF/5.5V                                  | SB CAP=-822=C                    | CN10A         | 205 0666 007                 | 10P Conn. Base (9130)                        | 10P                          | 1     |
| C814                 | 253 1181 904                 | Ceramic 0.01µF/50V                                   | CK45F1H103Z                      | CN9A          | 205 0666 094                 | 9P Conn. Base (9130)                         |                              | 1     |
| C815                 | 254 4260 948                 | Electrolytic 1µF/50V                                 | CE04W1H010M                      | CN21A         | 205 0491 049                 | 21P FFC Conn.                                |                              | 1     |
| C818                 | 253 1146 907                 | Ceramic 0.01µF/50V                                   | CK45F1H103Z                      | CN3B          | 205 0185 038                 | 3P Wire Holder                               |                              | 1     |
| C820                 | 254 4260 948                 | Electrolytic 1µF/50V                                 | CE04W1H010M                      | CN3B          | 205 0185 038                 | 3P Wire Holder                               | 1                            | 1     |
| C821                 | 253 1146 907                 | Ceramic 0.01µF/50V                                   | CK45F1H103Z<br>CK45F1H103Z       | CN3D          | 205 0185 038                 | 3P Wire Holder                               |                              | 11    |
| C823                 | 253 1146 907<br>254 4254 941 | Ceramic 0.01μF/50V<br>Electrolytic 100μF/16V         | CE04W1C101M                      | CN3D          | 205 0185 038                 | 3P Wire Holder                               |                              | ] ]   |
| C851~854<br>C855     | 254 4254 941                 | Metalized 0.1µF/50V                                  | CF93A1H104J                      | CN2A          | 205 0185 025                 | 2P Wire Holder                               | · ·                          | ;     |
| C856                 | 255 1264 982                 | Plastic Film 0.0047µF/50V                            | CQ93M1H472J(B)                   | CN2A          | 205 0185 025<br>205 0452 004 | 1  | STP1,2                       | 2     |
| C857                 | 256 1034 979                 | Metalized 0.1µF/50V                                  | CF93A1H104J                      |               | 002 0012 078                 |  | B-B L=320                    | 1 1   |
| C858                 | 255 1264 982                 | Plastic Film 0.0047µF/50V                            | CQ93M1H472J(B)                   | 11            | 002 0013 080                 |  | A-A L=360                    | 1     |
| C861,862             | 254 4260 948                 | Electrolytic 1µF/50V                                 | CE04W1H010M                      |               | 002 0013 093                 |  | C-C L=440                    | 1     |
| C863                 | 255 1264 982                 | Plastic Film 0.0047µF/50V                            | CQ93M1H472J(B)                   |               | 203 0482 081                 | 1P Sin Con Cord                              | Brown L=320                  | 2     |
| C864                 | 256 1034 979                 | Metalized 0.1μF/50V                                  | CF93A1H104J                      |               | 203 0482 094                 | 1P Sin Con Cord                              | Black L=320                  | 1     |
| C870                 | 255 1265 936                 | Plastic Film 0.01µF/50V                              | CQ93M1H103JT(B)                  |               | 203 0542 002                 | 1P Sin Con Cord                              | Black L=60                   | 1     |
| C875~877             | 253 1181 904                 | Ceramic 0.01µF/50V                                   | CK45F1H103                       |               |                              |  |                              |       |
|                      |                              |  |                                  |               |                              |  |                              |       |
| 1                    |                              |  |                                  |               |                              |  | l                            |       |
|                      |                              |  |                                  |               |                              |  |                              |       |
| 1                    |                              |  |                                  | 11            |                              |  | ,                            |       |
|                      |                              |  |                                  | П             |                              |  |                              |       |
|                      |                              |  |                                  | H             |                              |  |                              |       |
|                      |                              |  |                                  |               |                              |  |                              |       |
| 1                    |                              |  |                                  | 11            |                              |  |                              |       |
| 1                    |                              |  |                                  | 11            |                              |  |                              |       |
|                      |                              |  |                                  |               |                              |  |                              |       |
|                      |                              |  |                                  | П             |                              |  |                              |       |
|                      |                              |  |                                  | H             | 1                            |  |                              |       |
|                      |                              | ·  |                                  | J L           | <u> </u>                     |  |                              |       |

# 1U-2541B POWER INPUT UNIT ASS'Y

| Ref. No.                    | Part No.   | Part Name   | Remarks  | Ref. No.     | Part No.                          | Part Name                   | Remarks          |      |
|-----------------------------|--|---|--|--------------|-----------------------------------|-----------------------------|------------------|------|
| SEMICON                     | DUCTORS  | GROUP   |  | C405408      | 254 4260 948                      | Electrolytic 1µF/50V        | CE04W1H010M      |      |
|                             |  |   | 1  | C411,412     | 256 1034 979                      | Metalized 0.1µF/50V         | CF93A1H104J      |      |
| IC151                       | 263 0609 002   | IC NJM2068DDC                                     |  | C415,416     | 253 1181 904                      | Ceramic 0.01µF/50V          | CK45F1H103Z      |      |
| IC152                       | 263 0711 000   | IC M5218AP  |  | C4 19,420    | 254 4356 739                      | Electrolytic 47µF/50V (ARS) | CE04W1H470MC     |      |
| IC153                       | 262 1227 008   | IC LC7821   |  | C421,422     | 254 4259 726                      | Electrolytic 4700µF/35V     | CE04W1V472MC     |      |
| IC154                       | 262 1228 007   | IC LC7822   |  | C423,424     | 253 1151 905                      | Ceramic 0.0047µF/500V       | CK45E2H472P      |      |
| IC155                       | 262 1227 008   | IC LC7821   |  | C429,430     | 253 1179 903                      | Ceramic 100pF/50V           | CK45B1H101K      |      |
| IC401,402                   | 263 0855 005   | IC SI-18752                                       | IO Duntanton COV   | C431,432     | 254 4254 909                      | Electrolytic10µF/16V        | CE04W1C100M      |      |
| IC403,404                   | 268 0074 904   | IC ICP-N20  | IC Protector 20V   | C433,434     | 253 1181 917                      | Ceramic 0.022µF/50V         | CK45F1H223Z      |      |
| IC405                       | 263 0812 006   | NJM7815FA(S)                                      | Regulator +15V<br>Regulator -15V   | C435         | 254 4254 938                      | Electrolytic 47µF/16V       | CE04W1C470M      |      |
| IC406                       | 263 0561 001   | NJM7915FA(S)<br>IC M5218AP                        | negulator -15V   | C436         | 256 1042 903                      | Metalized 0.1µF/250V        | CF93A2E104K      |      |
| IC407<br>IC501              | 263 0711 000<br>263 0793 002   | IC NJM7806FA(S)                                   | Regulator +6V  | C437,438     | 253 1146 907                      | Ceramic 0.01µF/50V          | CK45F1H103Z      |      |
| 1C501                       | 268 0073 905   | IC ICP-N15  | IC Protector 15V   | C441,442     | 253 4537 966                      | Ceramic 47pF/50V            | CC45SL1H470J     |      |
| IC503                       | 263 0711 000   | IC M5218AP  | 10 FIDIECIDI 134   | C443,444     | 253 1179 903                      | Ceramic 100pF/50V           | CK45B1H101K      |      |
| 10001                       | 203 07 11 000  | 10 MOZ TOAT                                       |  | C502         | 254 4260 980                      | Electrolytic 10μF/50V       | CE04W1H100M      |      |
| TR404                       | 273 0198 918   | Transistor 2SC1815(BL)                            |  | C503,504     | 253 1181 904                      | Ceramic 0.01µF/50V          | CK45F1H103Z      |      |
| TR501,502                   | 273 0317 906   | Transistor 2SC2458(BL)                            |  | C507         | 254 4256 790                      | Electrolytic 2200µF/25V     | CE04W1E222MC     |      |
| TR504,505                   | 271 0131 924   | Transistor 2SA988(E/F)                            |  | C508         | 254 4260 948                      | Electrolytic 1µF/50V        | CE04W1H010M      |      |
| TR506                       | 273 0235 923   | Transistor 2SC1814(E/F)                           |  | C509,510     | 254 4365 720                      | Electrolytic 12000µF/56V    | CE04W==123MC(D   | DL)  |
| TR507                       | 271 0131 924   | Transistor 2SA988(E/F)                            |  | C511,512     | 253 1151 905                      | Ceramic 4700pF/500V         | CK45E2H472P      |      |
| 111307                      | 27:010:024   | Transition Editooo(E17)                           |  | <u> </u>     | 253 8014 702                      |                             | CK45F2GAC108M0   |      |
| A D401                      | 276 0338 007   | Diode S4VB20F                                     | Bridge   | C514         | 254 4260 948                      | Electrolytic 1μF/50V        | CE04W1H010M      |      |
| D402~404                    | 276 0432 903   | Diode 1SS270A                                     |  | C516,517     | 253 1181 904                      | Ceramic 0.01µF/50V          | CK45F1H103Z      |      |
| D503~508                    | 276 0553 905   | Diode 1SR35-200A                                  |  | C518         | 256 1042 903                      | Metalized 0.1µF/250V        | CE93A2E104K      |      |
| <u>↑</u> D509               | 276 0356 005   | Diode D5FB20(4001)                                | Bridge   | C519         | 254 4260 980                      | Electrolytic 10µF/50V       | CE04W1H100M      |      |
| D513                        | 276 0432 903   | Diode 1SS270A                                     | THE CONTRACT OF A CONTROL OF THE CON | C520,521     | 256 1034 979                      | Metalized 0.1µF/50V         | CF93A1H104J      |      |
|                             |  |   |  | C551,552     | 254 4254 909                      | Electrolytic 10μF/16V       | CE04W1C100M      |      |
| ZD501                       | 276 0465 909   | Zener Diode HZS7B-1                               | 7V   | C553,554     | 253 1179 945                      | Ceramic 220pF/50V           | CK45B1H221K      |      |
| ZD502                       | 276 0475 902   | Zener Diode HZS12C-1                              | 2V   | C555,556     | 254 4260 948                      | Electrolytic 1µF/50V        | CE04W1H010M      |      |
| 1.                          |  |   |  | C557,558     | 254 4254 941                      | Electrolytic 100µF/16V      | CE04W1C101M      |      |
| P460                        | 279 0034 067   | Posistor PTH9M04BB222TS2F33                       | 3  | C561,562     | 253 1179 903                      | Ceramic 100pF/50V           | CK45B1H101K      |      |
|                             |  |   |  |              |                                   |                             |                  |      |
| RESISTO                     | RS GROUP   |   |  | OTHER P      | ARTS GROU                         |                             |                  | 2'ty |
| (Not inclu                  | ded Carbon   | Film ±5%1/4W Type. Refe                           | r to the   |              | · · · · · · · · · · · · · · · · · | (P.W.Board)                 |                  | (1)  |
|                             |  | or those Parts.)                                  |  | L401,402     | 235 0068 004                      | Inductor 1mH                |                  | 2    |
| WHOLE ALL THE SECOND SECOND | Day of the state o | Charles Commence of the set of the second section | S. MARTING TO A MARTINE TO A MAR   | RL401        | 214 9003 005                      | Relay                       |                  |      |
| ⚠ R419,420                  | 244 2051 987   | Metal Oxide 4.7ohm 1W(NB)                         | RS14B3A4R7JNBS(S)  | ¼/ HC301     | 214 0120 000                      | Relay (TV-8)<br>Fuse Holder |                  | 0    |
| <u> </u>                    | 244 2043 982   | Metal Oxide 0.22ohm 1W(NB)                        | RS14B3AR22JNBS(S)  | <u></u> F001 | 206 1015 074                      |                             |                  | 2    |
|                             |  |   |  | <u> </u>     | 233 6058 009                      | Power Trans(Mini)           |                  | 1    |
| CAPACITO                    | ORS GROUP  |   |  |              | 204 8312 004                      | 4P Pin Jack(AU)             | Gold Flash       | 1    |
| C121~134                    | 253 4537 982   | Ceramic 56pF/50V                                  | CC45SL1H560J   |              | 204 8378 006                      | 6P Pin Jack (S-GND)         | Gold Flash       | 2    |
| C121~134                    | 253 4537 962   | Electrolytic 10µF/16V                             | CE04W1C100M  |              | 205 0592 003                      | 4P Push Terminal            | Rear SP          | 1    |
| C151,152                    | 253 1179 945   | Ceramic 220pF/50V                                 | CK45B1H221K  |              | 235 9003 002                      | FTZ Choke Coil              | 1100101          | 2    |
|                             | 253 1179 903   | Ceramic 100pF/50V                                 | CK45B1H101K  |              |                                   |                             |                  | _    |
| C155,156<br>C157,158        | 254 4250 932   | Electrolytic 220µF/6.3V                           | CE04W0J221M  | CN7A         | 205 0731 071                      | 7P Conn. Base-L(9131)       |                  | 1    |
| C159,160                    | 255 4199 999   | Plastic Film 0.024µF/50V                          | CQ92M1H243J(MRZ)   | CN9A         | 205 0731 097                      | 9P Conn. Base-L(9131)       |                  | 1    |
| C161,162                    | 255 1265 907   | Plastic Film 0.0068µF/50V                         | CQ93M1H682J(B)   | CN6E         | 205 0343 061                      |                             |                  | 1    |
| C163,164                    | 254 4254 938   | Electrolytic 47µF/16V                             | CE04W1C470M  | CN3K, 3C     | 205 0343 032                      | 3P Conn. Base(KR-PH)        |                  | 2    |
| C165,166                    | 255 1265 978   | Plastic Film 0.022µF/50V                          | CQ93M1H223J(B)   | CN6B, 6D     | 205 0343 061                      | 6P Conn. Base(KR-PH)        |                  | 2    |
| C167,168                    | 254 4254 909   | Electrolytic 10µF/16V                             | CE04W1C100M  | A            | 205 0243 064                      | 6P Wire Holder              |                  | 2    |
| C169,170                    | 253 1179 945   | Ceramic 220pF/50V                                 | CK45B1H221K  | CN10A        | 205 0667 006                      | 10P Conn. Base-L (9130)     |                  | 1    |
| C171,172                    | 254 4260 948   | Electrolytic 1µF/50V                              | CE04W1H010M  | A            | 002 0048 000                      | 6P WH-WH Ribbon             |                  | 1    |
| C173                        | 253 1181 917   | Ceramic 0.022µF/50V                               | CK45F1H223Z  | С            | 203 4870 013                      | 3P SCN-SCN Con Cord         |                  | 1    |
| C177,178                    | 253 1181 917   | Ceramic 0.022µF/50V                               | CK45F1H223Z  | В            | 203 4721 049                      | 3P SCN-SCN Con Cord         |                  | 1    |
| C180                        | 253 1181 917   | Ceramic 0.022µF/50V                               | CK45F1H223Z  |              | 415 0309 026                      | P.V.C Tube (L=20)           | for Posistor     | 2    |
| C182                        | 253 1116 908   | Ceramic 2200pF/50V                                | CK45B1H222K  |              | 513 0654 059                      | Fuse Label                  | for F001(T3.15A) | 1    |
| C183,184                    | 254 4260 948   | Electrolytic 1µF/50V                              | CE04W1H010M  |              | 205 0692 000                      | 2P Wrapping Terminal        | for AC Cord      | 1    |
| C185,186                    | 254 4254 941   | Electrolytic 100μF/16V                            | CE04W1C101M  |              |                                   |                             |                  |      |
| C187                        | 254 4260 948   | Electrolytic 1µF/50V                              | CE04W1H010M  |              |                                   |                             |                  |      |
| C195,196                    | 253 1179 903   | Ceramic 100pF/50V                                 | CK45B1H101K  |              |                                   |                             |                  |      |
| C401,402                    | 254 4260 951   | Electrolytic 2.2µF/50V                            | CE04W1H2R2M  |              |                                   |                             |                  |      |
| C403,404                    | 254 4258 905   | Electrolytic 4.7μF/35V                            | CE04WIV4R7M  |              |                                   |                             |                  |      |
|                             | {  |   |  |              |                                   |                             |                  | J    |
|                             |  |   |  |              |                                   |                             |                  |      |
|                             |  | · · · · · · · · · · · · · · · · · · ·             |  |              |                                   |                             |                  | _    |

# 1U-2542D VIDEO UNIT ASS'Y

| ef. No.                  | Part No.     | Part Name                      | Remarks          | Ref. No.   | Part No.     | Part Name                    | Remarks     | •         |
|--------------------------|--------------|--------------------------------|------------------|------------|--------------|------------------------------|-------------|-----------|
| EMICON                   | DUCTORS      | GROUP                          |                  | C976       | 253 1181 917 | Ceramic 0.022µF/50V          | CK45F1H223Z |           |
| C901                     | 263 0856 004 | IC BA7625                      |                  |            |              |                              |             |           |
| C902                     | 263 0682 003 | IC NJM2229S                    |                  | OTHER F    | PARTS GRO    | UP                           |             | Q         |
| C903                     | 262 1403 000 | IC M50554-001SP                |                  |            | 1            | 1                            | 1           | $\dagger$ |
| 2904                     | 263 0809 006 | IC NJM7805FA(S)                | Regulator +5V    |            |              | (P.W.Board)                  | 0           |           |
| 0905                     | 268 0074 904 | IC ICP-N20                     | IC Protector 20V |            | 204 8394 006 | 3P Pin Jack(C-GND)           | Composite   |           |
| C951                     | 263 0857 003 | IC BA7626                      |                  |            | 204 8415 008 | 3P S-Terminal                |             | 1         |
| C952                     | 263 0856 004 | IC BA7625                      |                  | S401~406   | 212 4388 907 | Tact Switch                  |             |           |
| J80Z                     | 203 0000 004 | 10 5/1020                      |                  | XL901      | 399 0105 009 | Ceramic Resonator            | CSB503F2    |           |
| FD004 00E                | 273 0317 906 | Transistor 2SC2458(BL)         |                  | XL902      | 399 0114 003 | Cristal Resonator (17.73MHz) |             |           |
|                          | 271 0102 924 | Transistor 2SA1015(GR)         |                  |            |              |                              |             |           |
|                          | l .          | Transistor 2SA1015(GR)         |                  | L901 .     | 235 0070 924 | Inductor 27µH                |             | 1         |
| TR951                    | 271 0102 924 |                                |                  | L902       | 235 0060 963 | Inductor 15µH                |             |           |
| H952~956                 | 271 0102 924 | Transistor 2SA1015(GR)         |                  | L903       | 235 0070 924 | Inductor 27µH                |             | 1         |
|                          |              | Diede DCM4D0                   | Time 2           | <b>[</b> ] |              |                              |             |           |
| D901~904                 | 276 0548 910 | Diode DSM1D2                   | Type-3           | GN14A      | 205 0810 015 | 14P Conn. Base-L(9130)       |             |           |
| D905                     | 276 0432 903 | Diode 1SS270A                  |                  | CN15A      | 205 0807 015 | 15P JL Conn.(F-E)            | 15P         |           |
| D908,909                 | 276 0432 903 | Diode 1SS270A                  |                  | CN2B       | 205 0075 025 | 2P Terminat                  |             |           |
|                          |              |                                |                  | CN5B       | 203 8355 000 | 5P KR-DS Con Cord            |             |           |
| ESISTO                   | RS GROUP     |                                |                  | 11         | 205 0233 032 |                              |             |           |
|                          |              |                                |                  | 11         | 203 4304 042 |                              |             |           |
| Not inclu                | ded Carbon   | Film ±5% 1/4W Type. Re         | fer to the       | []         | 205 0185 038 |                              |             | 1         |
|                          |              | or those Parts.)               |                  | []         | 200 0.00 000 | 1                            |             |           |
|                          |              |                                | ,                |            |              |                              |             | 1         |
| CAPACII                  | ORS GROU     | P                              |                  |            |              |                              |             |           |
| C901~903                 | 254 4260 977 | Electrolytic 4.7µF/50V         | CE04W1H4R7M      |            |              |                              |             |           |
| C904                     | 254 3056 917 | Electrolytic 1µF/50V (BI-Pole) | CE04D1H010MBP    | ]          |              |                              |             |           |
| C905~907                 | 254 4250 958 | Electrolytic 470µF/6.3V        | CE04W0J471M      |            |              |                              | 1           |           |
| C908                     | 254 4252 930 | Electrolytic 100µF/10V         | CE04W1A101M      | 11         |              |                              |             |           |
| C909                     | 255 1264 966 | Plastic Film 0.0033µF/50V      | CQ93M1H332J(B)   | 11         |              |                              |             |           |
| C910                     | 253 1179 987 | Ceramic 470pF/50V              | CK45B1H471K      | 11         |              |                              |             | -         |
| C911                     | 256 1034 953 | Metalized 0.068µF/50V          | CF93A1H683J      | 11         |              |                              |             |           |
|                          | 254 4260 948 | Electrolytic 1µF/50V           | CE04W1H010M      | 11         |              | ·                            |             |           |
| C912                     |              |                                | CK45B1H151K      |            | 1            |                              |             |           |
| C913                     | 253 1179 929 | Ceramic 150pF/50V              | 1                | 11         |              |                              |             |           |
| C914                     | 255 1264 911 | Plastic Film 0.0012µF/50V      | CQ93M1H122J(B)   |            |              | :                            |             |           |
| C915                     | 253 1181 904 | Ceramic 0.01µF/50V             | CK45F1H103Z      |            |              |                              |             |           |
| C916                     | 254 4252 930 | Electrolytic 100µF/10V         | CE04W1A010M      | H .        | 1            |                              |             |           |
| C917                     | 255 1264 908 | Plastic Film 0.001µF/50V       | -CQ93M1H102J(B)  | 11         |              |                              |             |           |
| C918                     | 254 4254 909 | Electrolytic 10µF/16V          | CE04W1C0100M     | 11         |              |                              |             | 1         |
| C920                     | 253 4538 949 | Ceramic 100pF/50V              | CC45SL1H101J     | 11         |              |                              |             | ĺ         |
| C921                     | 254 4260 977 | Electrolytic 4.7µF/50V         | CE04W1H4R7M      | H          |              |                              |             | 1         |
| C922                     | 253 1181 904 | Ceramic 0.01µF/50V             | CK45F1H103Z      | H          |              |                              |             |           |
| C923                     | 254 4252 930 | Electrolytic 100µF/10V         | CE04W1A101M      |            |              | •                            |             |           |
| C924,925                 | 253 4536 967 | Ceramic 18pF/50V               | CC45SL1H180J     | H          |              |                              |             |           |
| C926,927                 | 253 4536 983 | Ceramic 22pF/50V               | CC45SL1H220J     | H          |              |                              |             |           |
| C928                     | 255 1265 978 | Piastic Film 0.022µF/50V       | CQ93M1H223J(B)   | H          |              |                              |             |           |
| C929                     | 253 4537 966 | Ceramic 47pF/50V               | CC45SL1H470J     | H          |              |                              |             |           |
| C930                     | 253 4533 911 | Ceramic 30pF/50V               | CC45SL1H300J     | [] ·       |              |                              |             |           |
| C930<br>C931             | 255 1265 936 | Plastic Film 0.01µF/50V        | CQ93M1H103J(B)   | II         |              |                              | 1           |           |
|                          | 254 4260 980 | Electrolytic 10µF/50V          | CE04W1H100M      | 11         |              |                              | 1           |           |
| C932,933                 | 1            | Electrolytic 2200µF/16V        | CE04W1C222MC     |            |              |                              |             |           |
| C935                     | 254 4254 792 | , ,                            | CE04W1H010M      | 11         |              |                              |             |           |
| C936                     | 254 4260 948 | Electrolytic 1µF/50V           | 1                | 11         | 1            |                              | 1           |           |
| C937                     | 253 4447 904 | Ceramic 300pF/50V              | CC45SL1H301J     | 11         |              |                              |             |           |
| C938,939                 | 254 4260 948 | Electrolytic 1µF/50V           | CE04W1H010M      | 11         |              |                              |             |           |
| C941                     | 254 4260 977 | Electrolytic 4.7µF/50V         | CE04W1H4R7M      | <b>!</b>   |              |                              |             |           |
| C942                     | 255 1265 936 | Plastic Film 0.01µF/50V        | CQ93M1H103J(B)   | 11         |              |                              |             |           |
| C951~956                 | 254 4260 977 | Electrolytic 4.7µF/50V         | CE04W1H4R7M      | 11         |              |                              |             |           |
| C957                     | 254 4250 932 | Electrolytic 220µF/6.3V        | CE04W0J221M      |            |              |                              |             |           |
| C958                     | 254 4250 958 | Electrolytic 470µF/6.3V        | CE04W0J471M      |            |              |                              |             |           |
| C959                     | 254 4250 932 | Electrolytic 220µF/6.3V        | CE04W0J221M      | 11         |              |                              |             |           |
|                          | 254 4250 958 | Electrolytic 470µF/6.3V        | CE04W0J471M      |            | 1            |                              |             |           |
| C960                     | 254 4250 932 | Electrolytic 220µF/6.3V        | CE04W0J221M      | 11         |              |                              |             |           |
| C960<br>C961             |              |                                | CE04W0J471M      |            |              | •                            |             |           |
| C961                     | 254 4250 059 | Electrolytic 4/UHE/6.3V        |                  |            | 1            | l .                          | 1           | -1        |
| C961<br>C962             | 254 4250 958 | Electrolytic 470µF/6.3V        |                  |            |              |                              |             | -         |
| C961<br>C962<br>C966,967 | 253 1181 917 | Ceramic 0.022µF/50V            | CK45F1H223Z      |            |              |                              |             |           |
| C961<br>C962             |              |                                |                  |            |              |                              |             |           |

## 1U-2543D SURROUND UNIT ASS'Y

| Ref. No.   | Part No.  | Part Name  | Remarks  | Ref. No.  | Part No.   | Part Name   | Remarks  |
|--|---|--|--|---|--|---|--|
| SEMICONI   | DUCTOFES (  | GROUP  |  | C635  | 253 1180 905   | Ceramic 680pF/50V   | CK45B1H681K  |
|  | 263 0828 🔾 03   | IC SSM2126   |  | C636~639  | 254 4258 905   | Electrolytic 4.7µF/35V  | CE04W1V4R7M  |
|  | 262 1228 🔾 07   | IC LC7822  |  | C640~642  | 253 1181 917   | Ceramic 0.022µF/50V   | CK45F1H223Z  |
|  |   | IC F71002B   | DSP  | C644  | 254 4256 949   | Electrolytic 100µF/25V  | CE04W1E101M  |
|  | 262 1609 1 05   | IC HM65256BLFP-10T   | PSRAM  | C645,646  | 253 9039 906   | BC Ceramic 0.1µF/25V  | CK45=1E104Z  |
|  | 262 1610 000  |  | PONAIVI  | C647  | 254 4254 941   | Electrolytic 100µF/16V  | CE04W1C101M  |
|  | 262 0625 009  | IC TC9176P   |  | C648  | 253 9039 906   | BC Ceramic 0.1µF/25V  | CK45=1E104Z  |
|  | 263 0654 002  | IC NJM2082D  |  | C649  | 254 4254 938   | Electrolytic 47µF/16V   | CE04W1C470M  |
|  | 263 0711 000  | IC M5218AP   | Day later 5M   | C651~654  | 254 4260 948   | Electrolytic 1µF/50V  | CE04W1H010M  |
|  | 263 0809 <b>O</b> 06  | IC NJM7805FA(S)  | Regulator +5 V   | C655,656  | 255 6177 964   | Plastic Film 150pF/50V  | CQ09S1H151J(SMT)   |
|  | 263 0711 000  | IC M5218AP   |  | C657,658  | 253 9030 918   | BC Ceramic 1500pF/25V   | CK45=1E152K  |
| IC704  | 263 0476 <b>O</b> 02  | IC LB1639  |  | C659,660  | 253 1179 945   | Ceramic 220pF/50V   | CK45B1H221K  |
|  | 263 0711 <b>O</b> 00  | IC M5218AP   |  | C661,662  | 253 9031 975   | BC Ceramic 3900pF/25V   | CK45=1E392K  |
| IC751  | 262 1564 <b>O</b> 04  | IC MSC1937-01  |  | C663,664  | 254 4260 948   | Electrolytic 1µF/50V  | CE04W1H010M  |
| IC752  | 499 0150 <b>O</b> 08  | IC SBX1610-52  | Remocon Receiver   | C665  | 253 9039 906   | BC Ceramic 0.1µF/25V  | CK45=1E104Z  |
|  |   |  |  | C666  | 254 4260 948   | Electrolytic 1µF/50V  | CE04W1H010M  |
| TR601  | 274 0060 900  | Transistor 2SD667A(C)  |  | C667  | 253 9039 906   | BC Ceramic 0.1µF/25V  | CK45=1E104Z  |
| TR602  | 272 0053 908  | Transistor 2SB647A(C)  |  | C668  | 254 4254 941   | Electrolytic 100µF/16V  | CE04W1C101M  |
| TR604,605  | 269 0025 901  | Transistor RN1202(10k-10k)   | Built in Resistor  | C669,670  | 253 4536 970   | Ceramic 20pF/50V  | CC45SL1H200J   |
| TR701~705  | 275 0061 902  | FET 2SK184(GR)/(BL)  |  | i i '   | 253 9039 906   | BC Ceramic 0.1µF/25V  | CK45=1E104Z  |
| TR751  | 269 0024 902  | Transistor RN2201(4.7k-4.7k)   | Built in Resistor  | C671  | 1  | Electrolytic 220µF/10V  |  |
| TR791  | 272 0053 908  | Transistor 2SB647A(C)  |  | C672  | 254 4252 943   |   | CE04W1A221M  |
| TR792  | 269 0023 903  | Transistor RN1201(4.7k-4.7k)   | Built in Resistor  | C673  | 253 9039 906   | BC Ceramic 0.1µF/25V  | CK45=1E104Z  |
|  |   |  |  | C674  | 254 4252 927   | Electrolytic 47µF/10V   | CE04W1A470M  |
| D601~607   | 276 0432 903  | Diode 1SS270A  |  | C675,676  | 255 6177 919   | Plastic Film 56pF/50V   | CQ09S1H560J  |
| D701~705   | 276 0432 903  | Diode 1SS270A  |  | C677,678  | 253 9030 918   | BC Ceramic 1500pF/25V   | CK45=1E152K  |
| D751~756   | 276 0432 903  | Diode 1SS270A  |  | C679,680  | 253 1179 945   | Ceramic 220pF/50V   | CK45B1H221K  |
| D751-755   | 276 0432 903  | Diode 1SS270A  |  | C681,682  | 253 9031 975   | BC Ceramic 3900pF/25V   | CK45=1E392K  |
| D739<br>D791   | 276 0432 903  | Diode 1SS270A  |  | C683,684  | 254 4260 906   | Electrolytic 0.1 µF/50V   | CE04W1H0R1M  |
| ZD601,602  | 276 0432 908  | Zener Diode HZS7C-1  | 7 V  | C687  | 253 9039 906   | BC Ceramic 0.1µF/25V  | CK45=1E104Z  |
| 20001,002  | 276 0466 500  | Zener blode (12070-1   | ′ *  | C689,690  | 254 4254 909   | Electrolytic 10µF/16V   | CE04W1C100M  |
|  | 000 0404 000  | LED SEL1210S   | 6-1  | C691,692  | 253 1179 916   | Ceramic 120pF/50V   | CK45B1H121K  |
| 10754  |   |  |  |   |  |   |  |
| LD751  | 393 9434 906  | LED SEL 12103  | Red  | C693,694  | 254 4254 909   | Electrolytic 10µF/16V   | CE04W1C100M  |
| LD751  | 393 9434 906  | LED SEL 12103  | Hea  | C693,694<br>C695,696  | 254 4254 909<br>255 1264 966   | Electrolytic 10µF/16V<br>Plastic Film 0.0033µF/50V  | CE04W1C100M<br>CQ93M1H332J(B)  |
|  |   | LED SEL 12103  | Hea .  |   | E .  | , ,   |  |
| RESISTO  | RS GROUP  |  |  | C695,696  | 255 1264 966   | Plastic Film 0.0033µF/50V   | CQ93M1H332J(B)   |
| RESISTO  | RS GROUP  | Film ±5% 1/4W Type. Ref  |  | C695,696<br>C697,698  | 255 1264 966<br>254 4260 948   | Plastic Film 0.0033µF/50V<br>Electrolytic 1µF/50V   | CQ93M1H332J(B)<br>CE04W1H010M  |
| RESISTO  | RS GROUP  |  |  | C695,696<br>C697,698<br>C699-702  | 255 1264 966<br>254 4260 948<br>254 4254 909   | Plastic Film 0.0033µF/50V<br>Electrolytic 1µF/50V<br>Electrolytic 10µF/16V  | CQ93M1H332J(B)<br>CE04W1H010M<br>CE04W1C100M   |
| RESISTOR<br>(Not inclu<br>Schematic  | RS GROUP<br>ded Carbon<br>c Diagram fo  | Film ±5% 1/4W Type. Ref<br>or those Parts.)  | er to the  | C695,696<br>C697,698<br>C699~702<br>C703,704  | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982   | Plastic Film 0.0033µF/50V<br>Electrolytic 1µF/50V<br>Electrolytic 10µF/16V<br>Metalized 0.12µF/50V  | CQ93M1H332J(B)<br>CE04W1H010M<br>CE04W1C100M<br>CF93A1H124J  |
| RESISTOR (Not inclu Schematic  | RS GROUP<br>ided Carbon<br>c Diagram fo   | Film ±5% 1/4W Type. Ref<br>or those Parts.)<br>Carbon Film 4.7ohm 1/4W(NB)   | er to the RD14B2E4R7JNBS   | C695,696<br>C697,698<br>C699702<br>C703,704<br>C705,706   | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965   | Plastic Film 0.0033µF/50V<br>Electrolytic 1µF/50V<br>Electrolytic 10µF/16V<br>Metalized 0.12µF/50V<br>Plastic Film 0.018µF/50V  | CQ93M1H332J(B)<br>CE04W1H010M<br>CE04W1C100M<br>CF93A1H124J<br>CQ93M1H183J(B)  |
| RESISTOR<br>(Not inclu<br>Schematic  | RS GROUP<br>ded Carbon<br>c Diagram fo  | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4 7ohin 1/4W(NB) Carbon Composition   | er to the  | C695,696<br>C697,698<br>C699-702<br>C703,704<br>C705,706<br>C707,708  | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909   | Plastic Film 0.0033µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Metalized 0.12µF/50V Plastic Film 0.018µF/50V Electrolytic 10µF/16V  | CQ93M1H332J(B)<br>CE04W1H010M<br>CE04W1C100M<br>CF93A1H124J<br>CQ93M1H183J(B)<br>CE04W1C100M   |
| RESISTOR (Not inclu Schematic R603,604 R609  | RS GROUP<br>ided Carbon<br>c Diagram fo<br>241 2387 940<br>242 0203 003   | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4.7ohm 1/4W(NB)  Carbon Composition  10 Mohm 1/4W   | er to the  RD14B2E4R7JNBS RC05GF2E106K   | C695,696<br>C697,698<br>C699-702<br>C703,704<br>C705,706<br>C707,708<br>C709-712<br>C715  | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909<br>254 4260 948<br>254 4254 909   | Plastic Film 0.0033µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Metalized 0.12µF/50V Plastic Film 0.018µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V  | CQ93M1H332J(B) CE04W1H010M CE04W1C100M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CE04W1H010M CE04W1C100M  |
| RESISTOR (Not inclu Schematic À R603,604 À R609  | RS GROUP<br>ded Carbon<br>c Diagram fo<br>241 2387 940<br>242 0203 003<br>244 2055 996  | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4-7ohm 1/4W(NB). Carbon Composition 10 Mohm 1/4W Metal Oxide 1-2kohm, 1W  | er to the  RD14B2E4R7JNBS RC05GF2E106K  RS14B3A122JNBS(S)  | C695,696<br>C697,698<br>C699-702<br>C703,704<br>C705,706<br>C707,708<br>C709-712<br>C715<br>C716  | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909<br>254 4260 948<br>254 4254 909<br>255 1264 940   | Plastic Film 0.0033µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Metalized 0.12µF/50V Plastic Film 0.018µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Plastic Film 0.0022µF/50V  | CQ93M1H332J(B) CE04W1H010M CE04W1C100M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CE04W1H010M CE04W1C100M CQ93M1H222J(B)   |
| RESISTOR (Not inclu Schematic R603,604 R609  | RS GROUP<br>ided Carbon<br>c Diagram fo<br>241 2387 940<br>242 0203 003   | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4.7ohm 1/4W(NB)  Carbon Composition  10 Mohm 1/4W   | er to the  RD14B2E4R7JNBS RC05GF2E106K   | C695,696<br>C697,698<br>C699-702<br>C703,704<br>C705,706<br>C707,708<br>C709-712<br>C715<br>C716<br>C717,718  | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909<br>254 4260 948<br>254 4254 909<br>255 1264 940<br>253 1181 917   | Plastic Film 0.0033µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Metalized 0.12µF/50V Plastic Film 0.018µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Plastic Film 0.0022µF/50V Ceramic 0.022µF/50V  | CQ93M1H332J(B) CE04W1H010M CE04W1C100M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CE04W1H010M CE04W1C100M CQ93M1H222J(B) CK45F1H223Z   |
| RESISTOR (Not inclu Schematic A R603,604 A R609 A R639 A R641  | RS GROUP<br>ded Carbon<br>c Diagram fo<br>241 2387 940<br>242 0203 003<br>244 2055 996<br>241 2387 940  | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4-7ohm 1/4W(NB) Carbon Composition 10 Mohm 1/4W Metal Oxide 1-2kohm, 1W Garbon Film 4-7ohm 1/4W(NB)   | er to the  RD14B2E4R7JNBS RC05GF2E106K  RS14B3A122JNBS(S) RD14B2E4R7JNBS   | C695,696<br>C697,698<br>C699-702<br>C703,704<br>C705,706<br>C707,708<br>C709-712<br>C715<br>C716<br>C717,718<br>C719,720  | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909<br>254 4260 948<br>254 4254 909<br>255 1264 940<br>253 1181 917<br>254 4260 948   | Plastic Film 0.0033µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Metalized 0.12µF/50V Plastic Film 0.018µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Plastic Film 0.0022µF/50V Ceramic 0.022µF/50V Electrolytic 1µF/50V   | CQ93M1H332J(B) CE04W1H010M CE04W1C100M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CE04W1C100M CE04W1C100M CQ93M1H222J(B) CK45F1H223Z CE04W1H010M   |
| RESISTOR (Not inclu Schematic À R603,604 À R609  | RS GROUP<br>ded Carbon<br>c Diagram fo<br>241 2387 940<br>242 0203 003<br>244 2055 996  | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4-7ohm 1/4W(NB). Carbon Composition 10 Mohm 1/4W Metal Oxide 1-2kohm, 1W  | er to the  RD14B2E4R7JNBS RC05GF2E106K  RS14B3A122JNBS(S)  | C695,696<br>C697,698<br>C699–702<br>C703,704<br>C705,706<br>C707,708<br>C709–712<br>C715<br>C716<br>C717,718<br>C719,720<br>C721,722  | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909<br>254 4260 948<br>254 4254 909<br>255 1264 940<br>253 1181 917<br>254 4260 948<br>254 4254 909   | Plastic Film 0.0033µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Metalized 0.12µF/50V Plastic Film 0.018µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Plastic Film 0.0022µF/50V Ceramic 0.022µF/50V Electrolytic 1µF/50V Electrolytic 1µF/50V  | CQ93M1H332J(B) CE04W1H010M CE04W1C100M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CE04W1C100M CQ93M1H222J(B) CK45F1H223Z CE04W1H010M CE04W1C100M   |
| RESISTOR (Not inclu Schematic A R603,604 A R609 A R639 A R641  | RS GROUP<br>ded Carbon<br>c Diagram fo<br>241 2387 940<br>242 0203 003<br>244 2055 996<br>241 2387 940  | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4-7ohm 1/4W(NB) Carbon Composition 10 Mohm 1/4W Metal Oxide 1-2kohm, 1W Garbon Film 4-7ohm 1/4W(NB)   | er to the  RD14B2E4R7JNBS RC05GF2E106K  RS14B3A122JNBS(S) RD14B2E4R7JNBS   | C695,696<br>C697,698<br>C699–702<br>C703,704<br>C705,706<br>C707,708<br>C709–712<br>C715<br>C716<br>C717,718<br>C719,720<br>C721,722<br>C723  | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909<br>254 4260 948<br>254 4254 909<br>253 1181 917<br>254 4260 948<br>254 4254 909<br>253 1179 903   | Plastic Film 0.0033µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Metalized 0.12µF/50V Plastic Film 0.018µF/50V Electrolytic 10µF/16V Electrolytic 1µF/50V Electrolytic 10µF/16V Plastic Film 0.0022µF/50V Ceramic 0.022µF/50V Electrolytic 1µF/50V Electrolytic 1µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Ceramic 100µF/16V  | CQ93M1H332J(B) CE04W1H010M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M CQ93M1H222J(B) CK45F1H223Z CE04W1H010M CE04W1C100M CE04W1C100M CK45B1H101K   |
| RESISTOR (Not inclu Schematic A R603,604 A R609 A R639 A R641 VR701  | RS GROUP<br>ded Carbon<br>c Diagram fo<br>241 2387 940<br>242 0203 003<br>244 2055 996<br>241 2387 940<br>211 0759 003  | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4 7onm 1/4W(NB) Carbon Composition 10 Mohm 1/4W Metal Oxide 1 2kohm, 1W Carbon Film 4 7ohm 1/4W(NB)  Variable VR  | er to the  RD14B2E4R7JNBS RC05GF2E106K  RS14B3A122JNBS(S) RD14B2E4R7JNBS   | C695,696<br>C697,698<br>C699–702<br>C703,704<br>C705,706<br>C707,708<br>C709–712<br>C715<br>C716<br>C717,718<br>C719,720<br>C721,722<br>C723<br>C724  | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909<br>254 4260 948<br>254 4254 909<br>253 1181 917<br>254 4260 948<br>254 4254 909<br>253 1179 903<br>254 4254 909   | Plastic Film 0.0033µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Metalized 0.12µF/50V Plastic Film 0.018µF/50V Electrolytic 10µF/16V Electrolytic 1µF/50V Electrolytic 10µF/16V Plastic Film 0.0022µF/50V Ceramic 0.022µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Ceramic 100pF/50V Electrolytic 10µF/16V Ceramic 100pF/50V  | CQ93M1H332J(B) CE04W1H010M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CE04W1C100M CE04W1C100M CQ93M1H222J(B) CK45F1H223Z CE04W1H010M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M   |
| RESISTOR (Not inclu Schematic R603,604 R609 R639 R641 VR701 CAPACITO   | RS GROUP ded Carbon c Diagram for 241 2387 940 242 0203 003 244 2055 996 241 2387 940 211 0759 003 ORS GROUP  | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4 7ohm 1/4W(NB) Carbon Composition 10 Mohm 1/4W Metal Oxide 1 2kohm, 1W Carbon Film 4,7ohm 1/4W(NB)  Variable VR  | er to the  RD14B2E4R7JNBS RC05GF2E106K  RS14B3A122JNBS(S) RD14B2E4R7JNBS  100kohm  | C695,696<br>C697,698<br>C699–702<br>C703,704<br>C705,706<br>C707,708<br>C709–712<br>C715<br>C716<br>C717,718<br>C719,720<br>C721,722<br>C723<br>C724<br>C725  | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909<br>254 4260 948<br>254 4254 909<br>253 1181 917<br>254 4260 948<br>254 4254 909<br>253 1179 903<br>254 4254 909<br>254 4260 948   | Plastic Film 0.0033µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Metalized 0.12µF/50V Plastic Film 0.018µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Plastic Film 0.0022µF/50V Ceramic 0.022µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Ceramic 100pF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V   | CQ93M1H332J(B) CE04W1H010M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CE04W1H010M CE04W1H010M CQ93M1H222J(B) CK45F1H223Z CE04W1H010M CE04W1C100M CK45B1H101K CE04W1C100M CK45B1H101M   |
| RESISTOR (Not inclu Schematic R603,604 R609 R639 R641 VR701 CAPACITO C601,602  | RS GROUP ded Carbon c Diagram for 241 2387 940 242 0203 003 244 2055 996 241 2387 940 211 0759 003  ORS GROUP 254 4261 918  | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4.7ohm 1/4W(NB) Carbon Composition 10 Mohm 1/4W Metal Oxide 1.2kohm, 1W Carbon Film 4.7ohm 1/4W(NB)  Variable VR  Electrolytic 47µF/50V   | er to the  RD14B2E4R7JNBS RC05GF2E106K  RS14B3A122JNBS(S) RD14B2E4R7JNBS  100kohm  CE04W1H470M   | C695,696<br>C697,698<br>C699–702<br>C703,704<br>C705,706<br>C707,708<br>C709–712<br>C715<br>C716<br>C717,718<br>C719,720<br>C721,722<br>C723<br>C724  | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909<br>254 4260 948<br>254 4254 909<br>253 1181 917<br>254 4260 948<br>254 4254 909<br>253 1179 903<br>254 4254 909   | Plastic Film 0.0033µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Metalized 0.12µF/50V Plastic Film 0.018µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Plastic Film 0.0022µF/50V Ceramic 0.022µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Ceramic 100pF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 1µF/50V  | CQ93M1H332J(B) CE04W1H010M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CE04W1C100M CE04W1C100M CQ93M1H222J(B) CK45F1H223Z CE04W1H010M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M   |
| RESISTOR (Not inclu Schematic R603,604 R609 R641 VR701 CAPACITO C601,602 C603,604  | RS GROUP ded Carbon c Diagram for 241 2387 940 242 0203 003  244 2055 996 241 2387 940 211 0759 003  ORS GROUP  254 4261 918 256 1034 979   | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4.7ohm 1/4W(NB) Carbon Composition 10 Mohm 1/4W Metal Oxide 1.2kohm, 1W Carbon Film 4.7ohm 1/4W(NB)  Variable VR  Electrolytic 47µF/50V Metalized 0.1µF/50V   | er to the  RD14B2E4R7JNBS RC05GF2E106K  RS14B3A122JNBS(S) RD14B2E4R7JNBS  100kohm  CE04W1H470M CF93A1H104J   | C695,696<br>C697,698<br>C699-702<br>C703,704<br>C705,706<br>C707,708<br>C709-712<br>C715<br>C716<br>C717,718<br>C719,720<br>C721,722<br>C723<br>C724<br>C725<br>C726  | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909<br>254 4260 948<br>254 4254 909<br>255 1264 940<br>253 1181 917<br>254 4260 948<br>254 4254 909<br>253 1179 903<br>254 4254 909<br>254 4260 948<br>254 3056 917   | Plastic Film 0.0033µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Metalized 0.12µF/50V Plastic Film 0.018µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Plastic Film 0.0022µF/50V Ceramic 0.022µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Ceramic 100PF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 1µF/50V  | CQ93M1H332J(B) CE04W1H010M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CE04W1C100M CE04W1C100M CQ93M1H222J(B) CK45F1H223Z CE04W1H010M CE04W1C100M CK45B1H101M CE04W1C100M CK45B1H101M CE04W1C100M CE04W1C100M CE04W1H010M CE04W1H010M   |
| RESISTOR (Not inclu Schematic R603,604 R609 R639 R641 VR701 CAPACITO C601,602  | RS GROUP ded Carbon c Diagram for 241 2387 940 242 0203 003  244 2055 996 241 2387 940 211 0759 003  ORS GROUP 254 4261 918 256 1034 979 254 4254 941   | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4.7ohm 1/4W(NB) Carbon Composition 10 Mohm 1/4W Metal Oxide 1.2kohm, 1W Carbon Film 4.7ohm 1/4W(NB)  Variable VR  Electrolytic 47µF/50V Metalized 0.1µF/50V Electrolytic 100µF/16V  | er to the  RD14B2E4R7JNBS RC05GF2E106K  RS14B3A122JNBS(S) RD14B2E4R7JNBS  100kohm  CE04W1H470M CF93A1H104J CE04W1C101M   | C695,696<br>C697,698<br>C699–702<br>C703,704<br>C705,706<br>C707,708<br>C709–712<br>C715<br>C716<br>C717,718<br>C719,720<br>C721,722<br>C723<br>C724<br>C725<br>C726  | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909<br>254 4260 948<br>254 4254 909<br>255 1264 940<br>253 1181 917<br>254 4260 948<br>254 4254 909<br>253 179 903<br>254 4254 909<br>254 4260 948<br>254 3056 917  | Plastic Film 0.0033µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Metalized 0.12µF/50V Plastic Film 0.018µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Plastic Film 0.0022µF/50V Ceramic 0.022µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Ceramic 100pF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 1µF/50V  | CQ93M1H332J(B) CE04W1H010M CE04W1C100M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CE04W1C100M CQ93M1H222J(B) CK45F1H223Z CE04W1H010M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M CK45B1H101K CE04W1C100M CE04W1H010M CE04W1H01M CE04W1H01M CE04W1H01M CE04W1H01M CE04W1H01M CE04W1H01M CE04W1H01M CE04W1H01M CE04W |
| RESISTOR (Not inclu Schematic R603,604 R609 R641 VR701 CAPACITO C601,602 C603,604  | RS GROUP  Ided Carbon  C Diagram for  241 2387 940  242 0203 003  244 2055 996  241 2387 940  211 0759 003  ORS GROUP  254 4261 918  256 1034 979  254 4254 941  254 4260 980   | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4.7ohm 1/4W(NB). Carbon Composition 10 Mohm 1/4W Metal Oxide 1.2kohm, 1W. Carbon Film 4.7ohm 1/4W(NB).  Variable VR  Electrolytic 47µF/50V Metalized 0.1µF/50V Electrolytic 100µF/16V Electrolytic 10µF/50V   | er to the  RD14B2E4R7JNBS RC05GF2E106K  RS14B3A122JNBS(S) RD14B2E4R7JNBS  100kohm  CE04W1H470M CF93A1H104J CE04W1C101M CE04W1H100M   | C695,696<br>C697,698<br>C699-702<br>C703,704<br>C705,706<br>C707,708<br>C709-712<br>C715<br>C716<br>C717,718<br>C719,720<br>C721,722<br>C723<br>C724<br>C725<br>C726  | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909<br>254 4260 948<br>254 4254 909<br>255 1264 940<br>253 1181 917<br>254 4260 948<br>254 4254 909<br>253 1179 903<br>254 4254 909<br>254 4260 948<br>254 3056 917   | Plastic Film 0.0033μF/50V Electrolytic 1μF/50V Electrolytic 10μF/16V Metalized 0.12μF/50V Plastic Film 0.018μF/50V Electrolytic 10μF/16V Electrolytic 10μF/16V Electrolytic 10μF/16V Plastic Film 0.0022μF/50V Ceramic 0.022μF/50V Electrolytic 10μF/50V Electrolytic 10μF/16V Ceramic 100pF/50V Electrolytic 10μF/16V Electrolytic 10μF/16V Electrolytic 1μF/50V Electrolytic 1μF/50V Electrolytic 1μF/50V Electrolytic 1μF/50V Ceramic 0.01μF/50V Ceramic 0.01μF/50V Ceramic 0.01μF/50V   | CQ93M1H332J(B) CE04W1H010M CE04W1C100M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CE04W1C100M CQ93M1H222J(B) CK45F1H223Z CE04W1H010M CE04W1C100M CK45B1H101M CE04W1C100M CK45B1H101M CE04W1C100M CK45B1H101M CE04W1C100M CK45B1H101M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010MBP CK45F1H103Z CK45F1H103Z   |
| RESISTOR (Not inclu Schematic R603,604 R609 R641 VR701 CAPACITO C601,602 C603,604 C605,606   | RS GROUP ded Carbon c Diagram for 241 2387 940 242 0203 003  244 2055 996 241 2387 940 211 0759 003  ORS GROUP 254 4261 918 256 1034 979 254 4254 941   | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4.7ohm 1/4W(NB) Carbon Composition 10 Mohm 1/4W Metal Oxide 1.2kohm, 1W Carbon Film 4.7ohm 1/4W(NB)  Variable VR  Electrolytic 47µF/50V Metalized 0.1µF/50V Electrolytic 100µF/16V  | er to the  RD14B2E4R7JNBS RC05GF2E106K  RS14B3A122JNBS(S) RD14B2E4R7JNBS  100kohm  CE04W1H470M CF93A1H104J CE04W1C101M   | C695,696<br>C697,698<br>C699-702<br>C703,704<br>C705,706<br>C707,708<br>C709-712<br>C715<br>C716<br>C717,718<br>C719,720<br>C721,722<br>C723<br>C724<br>C725<br>C726  | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909<br>254 4260 948<br>254 4254 909<br>255 1264 940<br>253 1181 917<br>254 4260 948<br>254 4254 909<br>253 1179 903<br>254 4254 909<br>254 4260 948<br>254 3056 917<br>253 1181 904<br>253 1181 904<br>253 1181 904<br>253 1181 904<br>254 4356 001   | Plastic Film 0.0033μF/50V Electrolytic 1μF/50V Electrolytic 10μF/16V Metalized 0.12μF/50V Plastic Film 0.018μF/50V Electrolytic 10μF/16V Electrolytic 10μF/16V Electrolytic 10μF/16V Plastic Film 0.0022μF/50V Ceramic 0.022μF/50V Electrolytic 10μF/50V Electrolytic 10μF/16V Ceramic 100pF/50V Electrolytic 10μF/16V Electrolytic 10μF/16V Ceramic 100μF/50V Electrolytic 1μF/50V Electrolytic 1μF/50V Electrolytic 1μF/50V Ceramic 0.01μF/50V Ceramic 0.01μF/50V Ceramic 0.01μF/50V Electrolytic 10μF/50V  | CQ93M1H332J(B) CE04W1H010M CE04W1C100M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CE04W1C100M CQ93M1H222J(B) CK45F1H223Z CE04W1H010M CK45F1H223Z CE04W1H010M CK45B1H101K CE04W1C100M CE04W1C100M CE04W1H010M CE04W1H01M CE04W1H |
| RESISTOR (Not inclu Schematic R603,604 R609 R641 VR701 CAPACITO C601,602 C603,604 C605,606 C607,608  | RS GROUP  Ided Carbon  C Diagram for  241 2387 940  242 0203 003  244 2055 996  241 2387 940  211 0759 003  ORS GROUP  254 4261 918  256 1034 979  254 4254 941  254 4260 980   | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4.7ohm 1/4W(NB). Carbon Composition 10 Mohm 1/4W Metal Oxide 1.2kohm, 1W. Carbon Film 4.7ohm 1/4W(NB).  Variable VR  Electrolytic 47µF/50V Metalized 0.1µF/50V Electrolytic 100µF/16V Electrolytic 10µF/50V   | er to the  RD14B2E4R7JNBS RC05GF2E106K  RS14B3A122JNBS(S) RD14B2E4R7JNBS  100kohm  CE04W1H470M CF93A1H104J CE04W1C101M CE04W1H100M   | C695,696 C697,698 C699-702 C703,704 C705,706 C707,708 C709-712 C715 C716 C717,718 C719,720 C721,722 C723 C724 C725 C726 C727 C729 C731,732 C731,732 C737,738  | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909<br>255 1264 940<br>255 1264 940<br>253 1181 917<br>254 4254 909<br>253 1179 903<br>254 4254 909<br>254 4254 909<br>253 1181 904<br>253 1181 904<br>253 1181 904<br>253 1181 904<br>254 4356 001<br>254 4254 909   | Plastic Film 0.0033μF/50V Electrolytic 1μF/50V Electrolytic 10μF/16V Metalized 0.12μF/50V Plastic Film 0.018μF/50V Electrolytic 10μF/16V Electrolytic 10μF/16V Electrolytic 10μF/16V Plastic Film 0.0022μF/50V Electrolytic 10μF/50V Electrolytic 10μF/50V Electrolytic 10μF/50V Electrolytic 10μF/16V Ceramic 100pF/50V Electrolytic 10μF/16V Electrolytic 1μF/50V Electrolytic 1μF/50V Electrolytic 1μF/50V Electrolytic 1μF/50V Electrolytic 10μF/50V  | CQ93M1H332J(B) CE04W1H010M CE04W1C100M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CE04W1C100M CQ93M1H222J(B) CK45F1H223Z CE04W1H010M CK45F1H223Z CE04W1H010M CK45B1H101K CE04W1C100M CC04W1H010M CK45F1H103Z CK45F1H103Z CK45F1H103Z CK45F1H103Z CC04W1H100M(ARSCE04W1C100M  |
| RESISTOR (Not inclu Schematic A R603,604 A R639 A R641 VR701  CAPACITO C601,602 C603,604 C605,606 C607,608 C609,610 C611   | RS GROUP  Ided Carbon  c Diagram for  241 2387 940  242 0203 003  244 2055 996  241 2387 940  211 0759 003  ORS GROUP  254 4261 918  256 1034 979  254 4254 941  254 4260 980  255 1265 936   | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4.7ohm 1/4W(NB). Carbon Composition 10 Mohm 1/4W Metal Oxide 1.2kohm, 1W Carbon Film 4.7ohm 1/4W(NB).  Variable VR  Electrolytic 47µF/50V Metalized 0.1µF/50V Electrolytic 100µF/16V Electrolytic 10µF/50V Plastic Film 0.01µF/50V  | er to the  RD14B2E4R7JNBS RC05GF2E106K  RS14B3A122JNBS(S) RD14B2E4R7JNBS  100kohm  CE04W1H470M CF93A1H104J CE04W1C101M CE04W1H100M CQ93M1H103J(B)  | C695,696 C697,698 C699,702 C703,704 C705,706 C707,708 C709,712 C715 C716 C717,718 C719,720 C721,722 C723 C724 C725 C726 C727 C729 C731,732 C737,738 C741,742  | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909<br>254 4260 948<br>254 4254 909<br>253 1181 917<br>254 4260 948<br>254 4254 909<br>253 1179 903<br>254 4254 909<br>254 4260 948<br>254 3056 917<br>253 1181 904<br>253 1181 904<br>253 1181 904<br>254 4356 001<br>254 4254 909<br>254 4254 909   | Plastic Film 0.0033µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Metalized 0.12µF/50V Plastic Film 0.018µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Plastic Film 0.0022µF/50V Ceramic 0.022µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Ceramic 100µF/16V Ceramic 10µF/16V Electrolytic 1µF/50V Electrolytic 1µF/50V Electrolytic 1µF/50V Electrolytic 1µF/50V Electrolytic 10µF/50V Electrolytic 10µF/16V  | CQ93M1H332J(B) CE04W1H010M CE04W1C100M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CE04W1C100M CQ93M1H222J(B) CK45F1H223Z CE04W1H010M CK45F1H223Z CE04W1C100M CK45B1H101K CE04W1C100M CE04W1C100M CK45F1H103Z CK45F1H103Z CK45F1H103Z CK45F1H103Z CK45F1H103Z CCE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M  |
| RESISTOR (Not incluschematic Resistor R | RS GROUP  Ided Carbon  Diagram for  241 2387 940  242 0203 003  244 2055 996  241 2387 940  211 0759 003  ORS GROUP  254 4261 918  256 1034 979  254 4254 941  254 4260 980  255 1265 936  254 4258 905   | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4.7ohm 1/4W(NB) Carbon Composition 10 Mohm 1/4W Metal Oxide 1.2kohm, 1W Carbon Film 4.7ohm 1/4W(NB)  Variable VR  Electrolytic 47μF/50V Metalized 0.1μF/50V Electrolytic 10μF/50V Plastic Film 0.01μF/50V Electrolytic 4.7μF/35V  | er to the  RD14B2E4R7JNBS RC05GF2E106K  RS14B3A122JNBS(S) RD14B2E4R7JNBS  100kohm  CE04W1H470M CF93A1H104J CE04W1C101M CE04W1H100M CQ93M1H103J(B) CE04W1V4R7M  | C695,696 C697,698 C699-702 C703,704 C705,706 C707,708 C709-712 C715 C716 C717,718 C719,720 C721,722 C723 C724 C725 C726  C727 C729 C731,732 C737,738 C741,742 C743,744  | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909<br>254 4260 948<br>254 4254 909<br>253 1181 917<br>254 4260 948<br>254 4254 909<br>253 1179 903<br>254 4254 909<br>253 1181 904<br>253 1181 904<br>253 1181 904<br>253 1181 904<br>254 4254 909<br>254 4254 909<br>254 4254 909<br>254 4254 909<br>254 4254 909   | Plastic Film 0.0033µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Metalized 0.12µF/50V Plastic Film 0.018µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Plastic Film 0.0022µF/50V Ceramic 0.022µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Ceramic 100pF/50V Electrolytic 10µF/16V Electrolytic 1µF/50V Electrolytic 1µF/50V Electrolytic 1µF/50V Electrolytic 1µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V   | CQ93M1H332J(B) CE04W1H010M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CE04W1H010M CC93M1H222J(B) CK45F1H223Z CE04W1H010M CE04W1C100M CK45B1H101K CE04W1C100M CE04W1H010M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M  |
| RESISTOR (Not incluschematic Resistor R | RS GROUP  Ided Carbon  C Diagram for  241 2387 940  242 0203 003  244 2055 996  241 2387 940  211 0759 003  ORS GROUP  254 4261 918  256 1034 979  254 4254 941  254 4260 980  255 1265 936  254 4258 905  256 1035 910   | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4.7ohm 1/4W(NB) Carbon Composition 10 Mohm 1/4W Metal Oxide 1.2kohm, 1W Carbon Film 4.7ohm 1/4W(NB)  Variable VR  Electrolytic 47μF/50V Metalized 0.1μF/50V Electrolytic 10μF/50V Plastic Film 0.01μF/50V Electrolytic 4.7μF/35V Metalized 0.22μF/50V   | er to the  RD14B2E4R7JNBS RC05GF2E106K  RS14B3A122JNBS(S) RD14B2E4R7JNBS  100kohm  CE04W1H470M CF93A1H104J CE04W1C101M CE04W1H100M CQ93M1H103J(B) CE04W1V4R7M CF93A1H224J  | C695,696 C697,698 C699-702 C703,704 C705,706 C707,708 C709-712 C715 C716 C717,718 C719,720 C721,722 C723 C724 C725 C726  C727 C729 C731,732 C731,732 C731,732 C731,732 C731,734 C741,742 C743,744 C751                        | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909<br>254 4260 948<br>254 4254 909<br>253 1181 917<br>254 4260 948<br>254 4254 909<br>253 1179 903<br>254 4254 909<br>253 1181 904<br>253 1181 904<br>253 1181 904<br>254 4254 909<br>254 4260 948<br>254 4260 948<br>253 1181 904   | Plastic Film 0.0033μF/50V Electrolytic 1μF/50V Electrolytic 10μF/16V Metalized 0.12μF/50V Plastic Film 0.018μF/50V Electrolytic 10μF/16V Electrolytic 10μF/16V Electrolytic 10μF/16V Plastic Film 0.0022μF/50V Ceramic 0.022μF/50V Electrolytic 1μF/50V Electrolytic 10μF/16V Ceramic 100pF/50V Electrolytic 1ημF/50V Electrolytic 1ημF/50V Electrolytic 1ημF/50V Electrolytic 1ημF/50V Electrolytic 1ημF/50V Electrolytic 1ημF/50V Electrolytic 10ημF/50V Electrolytic 10ημF/16V Electrolytic 1ημF/50V Ceramic 0.01ημF/50V Ceramic 0.01ημF/50V   | CQ93M1H332J(B) CE04W1H010M CE04W1C100M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CE04W1C100M CQ93M1H222J(B) CK45F1H223Z CE04W1H010M CK45F1H223Z CE04W1C100M CK45F1H103M CE04W1C100M CK45F1H103M CE04W1C100M CK45F1H103Z CK45F1H103Z CK45F1H103Z CK45F1H103Z CK45F1H103Z CK45F1H103Z CE04W1C100M CE04W1C100M CE04W1C100M   |
| RESISTOR (Not incluschematic Resistor R | RS GROUP  Ided Carbon  C Diagram for  241 2387 940  242 0203 003  244 2055 996  241 2387 940  211 0759 003  ORS GROUP  254 4261 918  256 1034 979  254 4254 941  254 4260 980  255 1265 936  254 4258 905  256 1035 910  254 4260 980  253 1181 904   | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4 7ohm 1/4W(NB) Carbon Composition 10 Mohm 1/4W Metal Oxide 1 2kohm, 1W Carbon Film 4 7ohm 1/4W(NB)  Variable VR  Electrolytic 47μF/50V Metalized 0.1μF/50V Electrolytic 10μF/50V Plastic Film 0.01μF/50V Electrolytic 4.7μF/35V Metalized 0.22μF/50V Electrolytic 10μF/50V   | er to the  RD14B2E4R7JNBS RC05GF2E106K  RS14B3A122JNBS(S) RD14B2E4R7JNBS  100kohm  CE04W1H470M CF93A1H104J CE04W1C101M CC93M1H103J(B) CE04W1V4R7M CF93A1H224J CE04W1H100M CK45F1H103Z  | C695,696 C697,698 C699-702 C703,704 C705,706 C707,708 C709-712 C715 C716 C717,718 C719,720 C721,722 C723 C724 C725 C726  C727 C729 C731,732 C737,738 C741,742 C743,744  | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909<br>254 4260 948<br>254 4254 909<br>253 1181 917<br>254 4260 948<br>254 4254 909<br>253 1179 903<br>254 4254 909<br>253 1181 904<br>253 1181 904<br>253 1181 904<br>253 1181 904<br>254 4254 909<br>254 4254 909<br>254 4254 909<br>254 4254 909<br>254 4254 909   | Plastic Film 0.0033µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Metalized 0.12µF/50V Plastic Film 0.018µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Plastic Film 0.0022µF/50V Ceramic 0.022µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Ceramic 100pF/50V Electrolytic 10µF/16V Electrolytic 1µF/50V Electrolytic 1µF/50V Electrolytic 1µF/50V Electrolytic 1µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V   | CQ93M1H332J(B) CE04W1H010M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CE04W1H010M CQ93M1H222J(B) CK45F1H223Z CE04W1H010M CE04W1C100M CK45B1H101K CE04W1C100M CE04W1H010M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M  |
| RESISTOR (Not incluschematic Resistor R | RS GROUP  Ided Carbon  c Diagram for  241 2387 940  242 0203 003  244 2055 996  241 2387 940  211 0759 003  ORS GROUP  254 4261 918  256 1034 979  254 4269 980  255 1265 936  254 4269 980  253 1181 904  255 1265 936   | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4 7ohm 1/4W(NB) Carbon Composition 10 Mohm 1/4W Metal Oxide 1 2kohm, 1W Garbon Film 4 7ohm 1/4W(NB)  Variable VR  Electrolytic 47μF/50V Metalized 0.1μF/50V Electrolytic 10μF/50V Electrolytic 10μF/50V Electrolytic 4.7μF/35V Metalized 0.22μF/50V Electrolytic 10μF/50V Ceramic 0.01μF/50V Plastic Film 0.01μF/50V Plastic Film 0.01μF/50V  | er to the  RD14B2E4R7JNBS RC05GF2E106K  RS14B3A122JNBS(S) RD14B2E4R7JNBS  100kohm  CE04W1H470M CF93A1H104J CE04W1C101M CC93M1H103J(B) CE04W1V4R7M CF93A1H224J CE04W1H100M CK45F1H103Z CQ93M1H103J(B)   | C695,696 C697,698 C699-702 C703,704 C705,706 C707,708 C709-712 C715 C716 C717,718 C719,720 C721,722 C723 C724 C725 C726  C727 C729 C731,732 C731,732 C731,732 C731,732 C731,734 C741,742 C743,744 C751                        | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909<br>254 4260 948<br>254 4254 909<br>253 1181 917<br>254 4260 948<br>254 4254 909<br>253 1179 903<br>254 4254 909<br>253 1181 904<br>253 1181 904<br>253 1181 904<br>254 4254 909<br>254 4260 948<br>254 4260 948<br>253 1181 904   | Plastic Film 0.0033μF/50V Electrolytic 1μF/50V Electrolytic 10μF/16V Metalized 0.12μF/50V Plastic Film 0.018μF/50V Electrolytic 10μF/16V Electrolytic 10μF/16V Electrolytic 10μF/16V Plastic Film 0.0022μF/50V Ceramic 0.022μF/50V Electrolytic 1μF/50V Electrolytic 10μF/16V Ceramic 100pF/50V Electrolytic 1ημF/50V Electrolytic 1ημF/50V Electrolytic 1ημF/50V Electrolytic 1ημF/50V Electrolytic 1ημF/50V Electrolytic 1ημF/50V Electrolytic 10ημF/50V Electrolytic 10ημF/16V Electrolytic 1ημF/50V Ceramic 0.01ημF/50V Ceramic 0.01ημF/50V   | CQ93M1H332J(B) CE04W1H010M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CE04W1C100M CQ93M1H222J(B) CK45F1H223Z CE04W1H010M CE04W1C100M CK45B1H101K CE04W1C100M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H100M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1H010M CK45F1H103Z  |
| RESISTOR (Not incluschematic Resistor R | RS GROUP  Ided Carbon  c Diagram for  241 2387 940  242 0203 003  244 2055 996  241 2387 940  211 0759 003  ORS GROUP  254 4261 918  256 1034 979  254 4269 980  255 1265 936  254 4269 980  253 1181 904  255 1265 936  254 4256 949   | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4.7ohm 1/4W(NB) Carbon Composition 10 Mohm 1/4W Metal Oxide 1.2kohm, 1W Carbon Film 4.7ohm 1/4W(NB)  Variable VR  Electrolytic 47μF/50V Metalized 0.1μF/50V Electrolytic 10μF/50V Electrolytic 10μF/50V Electrolytic 4.7μF/35V Metalized 0.22μF/50V Electrolytic 10μF/50V Ceramic 0.01μF/50V Plastic Film 0.01μF/50V Ceramic 0.01μF/50V Electrolytic 10μF/50V Electrolytic 10μF/50V   | RD14B2E4R7JNBS<br>RC05GF2E106K<br>RS14B3A122JNBS(S).<br>RD14B2E4R7JNBS<br>100kohm<br>CE04W1H470M<br>CF93A1H104J<br>CE04W1C101M<br>CE04W1C101M<br>CE04W1H100M<br>CQ93M1H103J(B)<br>CE04W14R7M<br>CF93A1H224J<br>CE04W1H100M<br>CK45F1H103Z<br>CQ93M1H103J(B)<br>CE04W1E101M   | C695,696 C697,698 C699-702 C703,704 C705,706 C707,708 C709-712 C715 C716 C717,718 C719,720 C721,722 C723 C724 C725 C726  C727 C729 C731,732 C731,732 C731,732 C731,732 C731,732 C731,732 C731,732 C731,732 C731,734 C751 C752 | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909<br>254 4260 948<br>254 4254 909<br>253 1181 917<br>254 4260 948<br>254 4254 909<br>253 1179 903<br>254 4254 909<br>253 1181 904<br>253 1181 904<br>253 1181 904<br>254 4356 001<br>254 4254 909<br>254 4254 909<br>254 4254 909<br>254 4250 945   | Plastic Film 0.0033µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Metalized 0.12µF/50V Plastic Film 0.018µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Plastic Film 0.0022µF/50V Ceramic 0.022µF/50V Electrolytic 1µF/50V Electrolytic 1µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Ceramic 0.01µF/50V Electrolytic 1µF/50V Electrolytic 1µF/50V Electrolytic 1µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/50V Ceramic 0.01µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/50V Electrolytic 330µF/6.3V  | CQ93M1H332J(B) CE04W1H010M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M CQ93M1H222J(B) CK45F1H223Z CE04W1H010M CE04W1C100M CK45B1H101K CE04W1C100M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H100M CE04W1H100M CE04W1H100M CE04W1H100M CE04W1H100M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CK45F1H103Z CE04W0J331M   |
| RESISTOR (Not incluschematic R603,604 R609 R641 VR701  CAPACITY C601,602 C603,604 C605,606 C607,608 C609,610 C611 C612,613 C614 C615 C616 C617 C618  | RS GROUP  Ided Carbon  c Diagram for  241 2387 940 242 0203 003  244 2055 996 241 2387 940  211 0759 003  ORS GROUP  254 4261 918 256 1034 979 254 4254 941 254 4260 980 253 1181 904 255 1265 936 254 4256 949 254 4258 905  | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4.7ohm 1/4W(NB) Carbon Compotition 10 Mohm 1/4W Metal Oxide 1.2kohm, 1W Carbon Film 4.7ohm 1/4W(NB)  Variable VR  Electrolytic 47μF/50V Metalized 0.1μF/50V Electrolytic 100μF/50V Electrolytic 10μF/50V Electrolytic 4.7μF/35V Metalized 0.22μF/50V Electrolytic 10μF/50V Ceramic 0.01μF/50V Plastic Film 0.01μF/50V Electrolytic 10μF/50V Electrolytic 10μF/50V Electrolytic 10μF/50V Electrolytic 10μF/50V Electrolytic 10μF/50V Electrolytic 10μF/50V Electrolytic 100μF/50V Electrolytic 100μF/50V Electrolytic 100μF/50V Electrolytic 100μF/50V Electrolytic 100μF/50V Electrolytic 100μF/50V | PD14B2E4R7JNBS<br>RC05GF2E106K<br>RS14B3A122JNBS(S).<br>RD14B2E4R7JNBS<br>100kohm<br>CE04W1H470M<br>CF93A1H104J<br>CE04W1C101M<br>CE04W1C101M<br>CE04W1H100M<br>CC93M1H103J(B)<br>CE04W1V4R7M<br>CF93A1H224J<br>CE04W1H100M<br>CK45F1H103Z<br>CQ93M1H103J(B)<br>CE04W1E101M<br>CE04W1V4R7M   | C695,696 C697,698 C699-702 C703,704 C705,706 C707,708 C709-712 C715 C716 C717,718 C719,720 C721,722 C723 C724 C725 C726  C727 C729 C731,732 C737,738 C741,742 C743,744 C751 C752 C753   | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909<br>254 4260 948<br>254 4254 909<br>255 1264 940<br>253 1181 917<br>254 4260 948<br>254 4254 909<br>253 1179 903<br>254 4254 909<br>253 1181 904<br>253 1181 904<br>253 1181 904<br>254 4254 909<br>254 4254 909<br>254 4254 909<br>254 4254 909<br>254 4260 948<br>254 4254 909<br>254 4260 948<br>253 1181 904<br>254 4254 909<br>254 4260 948<br>253 1181 904<br>254 4260 948<br>253 1181 904   | Plastic Film 0.0033µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Metalized 0.12µF/50V Plastic Film 0.018µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Plastic Film 0.0022µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/16V Ceramic 100pF/50V Electrolytic 1µF/50V Electrolytic 1µF/50V Electrolytic 1µF/50V Electrolytic 10µF/50V Electrolytic 30µF/6V Electrolytic 30µF/6V Electrolytic 30µF/63V Electrolytic 100µF/50V  | CQ93M1H332J(B) CE04W1H010M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M CQ93M1H222J(B) CK45F1H223Z CE04W1H010M CE04W1C100M CK45B1H101K CE04W1C100M CE04W1C100M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H100M CE04W1H100M CE04W1H100M CE04W1H100M CE04W1H100M CE04W1H101M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CK45F1H103Z CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CK45F1H103Z CE04W0J331M CE04W1H101M   |
| RESISTOR (Not incluschematic R603,604 R609 R641 VR701  CAPACITY C601,602 C603,604 C605,606 C607,608 C609,610 C611 C612,613 C614 C615 C616 C617 C618 C619,620   | RS GROUP  Ided Carbon  c Diagram for  241 2387 940 242 0203 003  244 2055 996 241 2387 940  211 0759 003  ORS GROUP  254 4261 918 256 1034 979 254 4254 941 254 4260 980 253 1181 904 255 1265 936 254 4256 949 254 4258 905 256 1035 910 254 4260 980 253 1181 904 255 1265 936 254 4258 905 256 1035 910 254 4260 980 253 181 904 255 1265 936 254 4258 905 256 1035 910  | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4.7ohm 1/4W(NB) Carbon Compotition 10 Mohm 1/4W Metal Oxide 1.2kohm, 1W Carbon Film 4.7ohm 1/4W(NB)  Variable VR  Electrolytic 47µF/50V Metalized 0.1µF/50V Electrolytic 100µF/50V Electrolytic 10µF/50V Electrolytic 4.7µF/50V Electrolytic 4.7µF/50V Electrolytic 0.01µF/50V Electrolytic 10µF/50V Electrolytic 100µF/50V Electrolytic 100µF/50V Electrolytic 100µF/50V Electrolytic 4.7µF/35V Metalized 0.22µF/50V                     | PD14B2E4R7JNBS<br>RC05GF2E106K<br>RS14B3A122JNBS(S)<br>RD14B2E4R7JNBS<br>100kohm<br>CE04W1H470M<br>CF93A1H104J<br>CE04W1C101M<br>CE04W1H100M<br>CQ93M1H103J(B)<br>CE04W1V4R7M<br>CF93A1H224J<br>CE04W1H100M<br>CK45F1H103Z<br>CQ93M1H103J(B)<br>CE04W1E101M<br>CE04W1V4R7M<br>CF93A1H224J  | C695,696 C697,698 C699,702 C703,704 C705,706 C707,708 C709,712 C715 C716 C717,718 C719,720 C721,722 C723 C724 C725 C726  C727 C729 C731,732 C737,738 C741,742 C743,744 C751 C752 C753 C761,764 C791,792                       | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909<br>254 4260 948<br>254 4254 909<br>255 1264 940<br>253 1181 917<br>254 4260 948<br>254 4254 909<br>253 1179 903<br>254 4254 909<br>253 1181 904<br>253 1181 904<br>254 4356 001<br>254 4254 909<br>254 4254 909   | Plastic Film 0.0033µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Metalized 0.12µF/50V Plastic Film 0.018µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Plastic Film 0.0022µF/50V Electrolytic 10µF/16V Oeramic 0.022µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Ceramic 100pF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/50V Electrolytic 30µF/6.3V Electrolytic 30µF/6.3V Electrolytic 100µF/50V Ceramic 0.01µF/50V Ceramic 100µF/50V Ceramic 100µF/50V Ceramic 470pF/50V Ceramic 470pF/50V   | CQ93M1H332J(B) CE04W1H010M CE04W1C100M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CE04W1C100M CE04W1C100M CQ93M1H222J(B) CK45F1H223Z CE04W1H010M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1H101M CE04W1H101M CK45F1H103Z CE04W0J331M CE04W1H101M CK45F1H103Z   |
| RESISTOR (Not incluschematics) R603,604 R609 R641 VR701  CAPACITO C601,602 C603,604 C605,606 C607,608 C609,610 C611 C612,613 C614 C615 C616 C617 C618 C619,620 C621–624  | RS GROUP  Ided Carbon  c Diagram for  241 2387 940  242 0203 003  244 2055 996  241 2387 940  211 0759 003  ORS GROUP  254 4261 918  256 1034 979  254 4254 941  254 4260 980  255 1265 936  254 4258 905  256 1035 910  254 4256 949  255 1265 936  254 4256 949  255 1265 936  254 4256 949  255 1265 936  254 4256 949  254 4256 949  256 1035 910  256 1035 936   | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4 7ohm 1/4W(NB) Carbon Compotition 10 Mehm 1/4W Metal Oxide 1 2kohm, 1W Carbon Film 4 7ohm 1/4 W(NB)  Variable VR  Electrolytic 47µF/50V Metalized 0.1µF/50V Electrolytic 100µF/16V Electrolytic 10µF/50V Plastic Film 0.01µF/50V Electrolytic 4.7µF/35V Metalized 0.22µF/50V Ceramic 0.01µF/50V Plastic Film 0.01µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 4.7µF/35V Metalized 0.22µF/50V Electrolytic 100µF/25V Electrolytic 4.7µF/35V Metalized 0.23µF/50V Metalized 0.23µF/50V  | PD14B2E4R7JNBS<br>RC05GF2E106K<br>RS14B3A122JNBS(S)<br>RD14B2E4R7JNBS<br>100kohm<br>CE04W1H470M<br>CF93A1H104J<br>CE04W1C101M<br>CE04W1C101M<br>CE04W1H100M<br>CQ93M1H103J(B)<br>CE04W1V4R7M<br>CF93A1H224J<br>CE04W1H100M<br>CK45F1H103Z<br>CQ93M1H103J(B)<br>CE04W1E101M<br>CE04W1V4R7M<br>CF93A1H224J<br>CF93A1H224J<br>CF93A1H334J | C695,696 C697,698 C699,702 C703,704 C705,706 C707,708 C709,712 C715 C716 C717,718 C719,720 C721,722 C723 C724 C725 C726  C727 C729 C731,732 C737,738 C741,742 C743,744 C751 C752 C753 C761,764 C791,792 C793                  | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909<br>254 4260 948<br>254 4254 909<br>255 1264 940<br>253 1181 917<br>254 4260 948<br>254 4254 909<br>253 1179 903<br>254 4254 909<br>253 1181 904<br>253 1181 904<br>254 4254 909<br>254 4260 948<br>253 1181 904<br>254 4254 909<br>254 4260 948<br>253 1181 904<br>254 4260 948<br>254 4261 921<br>253 1179 903<br>253 1179 903 | Plastic Film 0.0033µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Metalized 0.12µF/50V Plastic Film 0.018µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Plastic Film 0.0022µF/50V Electrolytic 10µF/16V Oeramic 0.022µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/50V Electrolytic 10µF/50V Ceramic 0.01µF/50V Electrolytic 330µF/6.3V Electrolytic 100µF/50V Ceramic 100pF/50V Ceramic 100pF/50V Electrolytic 1µF/50V Electrolytic 1µF/50V Electrolytic 1µF/50V | CQ93M1H332J(B) CE04W1H010M CE04W1C100M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CE04W1H010M CE04W1C100M CE04W1H101M CE04W1H101M CK45B1H101K CK45B1H101K CK45B1H101K CK45B1H101M  |
| RESISTOR (Not inclusion schematic sc | RS GROUP  Ided Carbon  c Diagram for  241 2387 940  242 0203 003  244 2055 996  241 2387 940  211 0759 003  ORS GROUP  254 4261 918  256 1034 979  254 4254 941  254 4260 980  255 1265 936  254 4258 905  256 1035 910  254 4256 949  255 1265 936  254 4256 949  255 1265 936  254 4256 949  255 1265 936  254 1258 905  256 1035 910  256 1035 910  256 1035 936  255 1265 978   | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4.7ohm 1/4W(NB) Carbon Compotition 10 Mohm 1/4W Metal Oxide 1.2kohm, 1W Carbon Film 4.7ohm 1/4W(NB)  Variable VR  Electrolytic 47μF/50V Metalized 0.1μF/50V Electrolytic 10μF/50V Electrolytic 10μF/50V Electrolytic 4.7μF/35V Metalized 0.22μF/50V Electrolytic 10μF/50V Hastic Film 0.01μF/50V Electrolytic 4.7μF/35V Metalized 0.22μF/50V Metalized 0.33μF/50V Plastic Film 0.022μF/50V                          | er to the  RD14B2E4R7JNBS RC05GF2E106K  RS14B3A122JNBS(S) RD14B2E4R7JNBS  100kohm  CE04W1H470M CF93A1H104J CE04W1C101M CE04W1H100M CQ93M1H103J(B) CE04W1V4R7M CF93A1H224J CE04W1H100M CK45F1H103Z CQ93M1H03J(B) CE04W1Y4R7M CF93A1H224J CF93A1H224J CF93A1H224J CF93A1H224J CF93A1H234J CQ93M1H223J(B)                                 | C695,696 C697,698 C699,702 C703,704 C705,706 C707,708 C709,712 C715 C716 C717,718 C719,720 C721,722 C723 C724 C725 C726  C727 C729 C731,732 C737,738 C741,742 C743,744 C751 C752 C753 C761,764 C791,792                       | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909<br>254 4260 948<br>254 4254 909<br>255 1264 940<br>253 1181 917<br>254 4260 948<br>254 4254 909<br>253 1179 903<br>254 4254 909<br>253 1181 904<br>253 1181 904<br>253 1181 904<br>254 4254 909<br>254 4254 909<br>254 4254 909<br>254 4254 909<br>254 4254 909<br>254 4254 909<br>254 4260 948<br>253 1181 904<br>254 4254 909<br>254 4260 948<br>253 1181 904<br>254 4250 945<br>254 4261 921<br>253 1179 903<br>253 1179 903   | Plastic Film 0.0033µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Metalized 0.12µF/50V Plastic Film 0.018µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Plastic Film 0.0022µF/50V Electrolytic 10µF/16V Oeramic 0.022µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Ceramic 100pF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/50V Electrolytic 30µF/6.3V Electrolytic 30µF/6.3V Electrolytic 100µF/50V Ceramic 0.01µF/50V Ceramic 100µF/50V Ceramic 100µF/50V Ceramic 470pF/50V Ceramic 470pF/50V   | CQ93M1H332J(B) CE04W1H010M CE04W1C100M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CE04W1C100M CE04W1H010M CE04W1C100M CQ93M1H222J(B) CK45F1H223Z CE04W1H010M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H100M CE04W1H100M CE04W1H101M CE04W1H101M CE04W1H101M CE04W1H101M CE04W1H101M CE04W1H101M CK45F1H103Z CE04W1H101M CK45F1H103Z CE04W1H101M CK45F1H103Z CE04W1H101M CK45F1H103Z CE04W1H101M CK45F1H103Z   |
| RESISTOR (Not incluschematic) R603,604 R609 R641 VR701  CAPACITO C601,602 C603,604 C605,606 C607,608 C609,610 C611 C612,613 C614 C615 C616 C617 C618 C619,620 C621–624 C625,626 C627–631   | RS GROUP  Ided Carbon  c Diagram for  241 2387 940  242 0203 003  244 2055 996  241 2387 940  211 0759 003  ORS GROUP  254 4261 918  256 1034 979  254 4269 980  255 1265 936  254 4258 905  256 1035 910  254 4258 905  255 1265 936  254 4258 905  256 1035 910  256 1035 910  256 1035 910  256 1035 910  256 1035 936  255 1265 938  256 1035 910  256 1035 936  255 1265 978  256 1034 979   | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4.7ohm 1/4W(NB) Carbon Composition 10 Mohm 1/4W Metal Oxide 1.2kohm, 1W Carbon Film 4.7ohm 1/4W(NB)  Variable VR  Electrolytic 47μF/50V Metalized 0.1μF/50V Electrolytic 100μF/50V Electrolytic 10μF/50V Electrolytic 4.7μF/35V Metalized 0.22μF/50V Electrolytic 10μF/50V Electrolytic 10μF/50V Electrolytic 10μF/50V Electrolytic 10μF/50V Electrolytic 10μF/50V Electrolytic 10μF/50V Hastic Film 0.01μF/50V Electrolytic 4.7μF/35V Metalized 0.22μF/50V Metalized 0.33μF/50V Plastic Film 0.022μF/50V Metalized 0.33μF/50V Plastic Film 0.022μF/50V Metalized 0.1μF/50V                         | er to the  RD14B2E4R7JNBS RC05GF2E106K  RS14B3A122JNBS(S). RD14B2E4R7JNBS  100kohm  CE04W1H470M CF93A1H104J CE04W1C101M CE04W1C101M CE04W1H100M CQ93M1H103J(B) CE04W1V4R7M CF93A1H224J CC04W1H100M CK45F1H103Z CQ93M1H103J(B) CE04W1V4R7M CF93A1H224J CF93A1H334J CQ93M1H223J(B) CF93A1H104J   | C695,696 C697,698 C699,702 C703,704 C705,706 C707,708 C709,712 C715 C716 C717,718 C719,720 C721,722 C723 C724 C725 C726  C727 C729 C731,732 C737,738 C741,742 C743,744 C751 C752 C753 C761,764 C791,792 C793                  | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909<br>254 4260 948<br>254 4254 909<br>255 1264 940<br>253 1181 917<br>254 4260 948<br>254 4254 909<br>253 1179 903<br>254 4254 909<br>253 1181 904<br>253 1181 904<br>254 4254 909<br>254 4260 948<br>253 1181 904<br>254 4254 909<br>254 4260 948<br>253 1181 904<br>254 4260 948<br>254 4261 921<br>253 1179 903<br>253 1179 903 | Plastic Film 0.0033µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Metalized 0.12µF/50V Plastic Film 0.018µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Plastic Film 0.0022µF/50V Electrolytic 10µF/16V Oeramic 0.022µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/50V Electrolytic 10µF/50V Ceramic 0.01µF/50V Electrolytic 330µF/6.3V Electrolytic 100µF/50V Ceramic 100pF/50V Ceramic 100pF/50V Electrolytic 1µF/50V Electrolytic 1µF/50V Electrolytic 1µF/50V | CQ93M1H332J(B) CE04W1H010M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CE04W1C100M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1C100M CE04W1H010M CE04W1H100M CE04W1H100M CE04W1H101M CE04W1H101M CE04W1H101M CE04W1H101M CE04W1H101M CE04W1H101M CK45B1H101K CK45B1H101K CK45B1H101K CK45B1H101K CK45B1H101M  |
| RESISTOR (Not incluschematic) Resistor  | RS GROUP  Ided Carbon  c Diagram for  241 2387 940  242 0203 003  244 2055 996  241 2387 940  211 0759 003  ORS GROUP  254 4261 918  256 1034 979  254 4254 941  254 4269 980  255 1265 936  254 4258 905  256 1035 910  254 4258 905  256 1035 910  254 4258 905  256 1035 910  254 4258 905  256 1035 910  254 4258 905  256 1035 910  255 1265 938  254 4258 905  256 1035 910  256 1035 910  256 1035 910  256 1035 910  256 1035 910  256 1035 910  256 1035 936  256 1035 910  256 1035 936  256 1035 936  256 1035 936  256 1035 936  256 1035 936 | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4.7ohm 1/4W(NB) Carbon Composition 10 Mohm 1/4W Metal Oxide 1.2kohm, 1W Carbon Film 4.7ohm 1/4W(NB)  Variable VR  Electrolytic 47μF/50V Metalized 0.1μF/50V Electrolytic 10μF/50V Electrolytic 10μF/50V Electrolytic 4.7μF/35V Metalized 0.22μF/50V Electrolytic 10μF/50V Ceramic 0.01μF/50V Ceramic 0.01μF/50V Electrolytic 10μF/50V Ceramic 0.22μF/50V Metalized 0.22μF/50V Metalized 0.22μF/50V Metalized 0.33μF/50V Plastic Film 0.022μF/50V Metalized 0.33μF/50V Plastic Film 0.022μF/50V Metalized 0.1μF/50V Ceramic 680pF/50V Ceramic 680pF/50V  | er to the  RD14B2E4R7JNBS RC05GF2E106K  RS14B3A122JNBS(S). RD14B2E4R7JNBS  100kohm  CE04W1H470M CF93A1H104J CE04W1C101M CE04W1C101M CE04W1H100M CQ93M1H103J(B) CE04W1V4R7M CF93A1H224J CE04W1H100M CK45F1H103Z CQ93M1H103J(B) CE04W1E401M CF93A1H224J CF93A1H334J CQ93M1H223J(B) CF93A1H34J CQ93M1H223J(B) CF93A1H104J CK45B1H681K     | C695,696 C697,698 C699,702 C703,704 C705,706 C707,708 C709,712 C715 C716 C717,718 C719,720 C721,722 C723 C724 C725 C726  C727 C729 C731,732 C737,738 C741,742 C743,744 C751 C752 C753 C761,764 C791,792 C793                  | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909<br>254 4260 948<br>254 4254 909<br>255 1264 940<br>253 1181 917<br>254 4260 948<br>254 4254 909<br>253 1179 903<br>254 4254 909<br>253 1181 904<br>253 1181 904<br>254 4254 909<br>254 4260 948<br>253 1181 904<br>254 4254 909<br>254 4260 948<br>253 1181 904<br>254 4260 948<br>254 4261 921<br>253 1179 903<br>253 1179 903 | Plastic Film 0.0033µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Metalized 0.12µF/50V Plastic Film 0.018µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Plastic Film 0.0022µF/50V Electrolytic 10µF/16V Oeramic 0.022µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/50V Electrolytic 10µF/50V Ceramic 0.01µF/50V Electrolytic 330µF/6.3V Electrolytic 100µF/50V Ceramic 100pF/50V Ceramic 100pF/50V Electrolytic 1µF/50V Electrolytic 1µF/50V Electrolytic 1µF/50V | CQ93M1H332J(B) CE04W1H010M CE04W1C100M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1C100M CK45F1H223Z CE04W1H010M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1C100M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H010M CE04W1H100M CE04W1H101M CE04W1H101M CE04W1H101M CE04W1H101M CK45F1H103Z CE04W1H101M CK45B1H101K CK45B1H101K CK45B1H101K CK45B1H101M  |
| RESISTOR (Not incluschematic Resistor R | RS GROUP  Ided Carbon  c Diagram for  241 2387 940  242 0203 003  244 2055 996  241 2387 940  211 0759 003  ORS GROUP  254 4261 918  256 1034 979  254 4269 980  255 1265 936  254 4258 905  256 1035 910  254 4258 905  255 1265 936  254 4258 905  256 1035 910  256 1035 910  256 1035 910  256 1035 910  256 1035 936  255 1265 938  256 1035 910  256 1035 936  255 1265 978  256 1034 979   | Film ±5% 1/4W Type. Refor those Parts.)  Carbon Film 4.7ohm 1/4W(NB) Carbon Composition 10 Mohm 1/4W Metal Oxide 1.2kohm, 1W Carbon Film 4.7ohm 1/4W(NB)  Variable VR  Electrolytic 47μF/50V Metalized 0.1μF/50V Electrolytic 100μF/50V Electrolytic 10μF/50V Electrolytic 4.7μF/35V Metalized 0.22μF/50V Electrolytic 10μF/50V Electrolytic 10μF/50V Electrolytic 10μF/50V Electrolytic 10μF/50V Electrolytic 10μF/50V Electrolytic 10μF/50V Hastic Film 0.01μF/50V Electrolytic 4.7μF/35V Metalized 0.22μF/50V Metalized 0.33μF/50V Plastic Film 0.022μF/50V Metalized 0.33μF/50V Plastic Film 0.022μF/50V Metalized 0.1μF/50V                         | er to the  RD14B2E4R7JNBS RC05GF2E106K  RS14B3A122JNBS(S). RD14B2E4R7JNBS  100kohm  CE04W1H470M CF93A1H104J CE04W1C101M CE04W1C101M CE04W1H100M CQ93M1H103J(B) CE04W1V4R7M CF93A1H224J CC04W1H100M CK45F1H103Z CQ93M1H103J(B) CE04W1V4R7M CF93A1H224J CF93A1H334J CQ93M1H223J(B) CF93A1H104J   | C695,696 C697,698 C699,702 C703,704 C705,706 C707,708 C709,712 C715 C716 C717,718 C719,720 C721,722 C723 C724 C725 C726  C727 C729 C731,732 C737,738 C741,742 C743,744 C751 C752 C753 C761,764 C791,792 C793                  | 255 1264 966<br>254 4260 948<br>254 4254 909<br>256 1034 982<br>255 1265 965<br>254 4254 909<br>254 4260 948<br>254 4254 909<br>255 1264 940<br>253 1181 917<br>254 4260 948<br>254 4254 909<br>253 1179 903<br>254 4254 909<br>253 1181 904<br>253 1181 904<br>254 4254 909<br>254 4260 948<br>253 1181 904<br>254 4254 909<br>254 4260 948<br>253 1181 904<br>254 4260 948<br>254 4261 921<br>253 1179 903<br>253 1179 903 | Plastic Film 0.0033µF/50V Electrolytic 1µF/50V Electrolytic 10µF/16V Metalized 0.12µF/50V Plastic Film 0.018µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Plastic Film 0.0022µF/50V Electrolytic 10µF/16V Oeramic 0.022µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/50V Electrolytic 10µF/16V Electrolytic 10µF/16V Electrolytic 10µF/50V Electrolytic 10µF/50V Ceramic 0.01µF/50V Electrolytic 330µF/6.3V Electrolytic 100µF/50V Ceramic 100pF/50V Ceramic 100pF/50V Electrolytic 1µF/50V Electrolytic 1µF/50V Electrolytic 1µF/50V | CQ93M1H332J(B) CE04W1H010M CE04W1C100M CF93A1H124J CQ93M1H183J(B) CE04W1C100M CE04W1H010M CE04W1C100M CE04W1H101M CE04W1H101M CK45B1H101K CK45B1H101K CK45B1H101K CK45B1H101M  |

# 1U-2442B AUDIO REC UNIT ASS'Y

| Ref. No.  | Part No.     | Part Name              | Remarks    | Q'ty | Ref.No.      | Part. No                     | Part Name                                     | Remaks         |       |
|-----------|--------------|------------------------|------------|------|--------------|------------------------------|---|----------------|-------|
| OTHER P.  | ARTS GROU    | IP                     |            |      | SEMICO       | NDUCTORS                     | GROUP   |                |       |
|           | _            | (P.W.Board)            |            | (1)  | TR260        | 273 0317 906                 | Transistor 2SC2458(BL)                        |                | -     |
| XL601     | 399 0162 000 | Crystal Vibrator       | 11.2896MHz | 1    | TR326        | 273 0317 906                 | Transistor 2SC2458(BL)                        |                |       |
| FL751     | 393 4131 000 | FLD (FIP14PM8)         |            | 1    | TR327        | 273 0317 906                 | Transistor 2SC2458(BL)                        |                |       |
| LF601,602 | 232 0168 002 | LC Filter              |            | 2    | TR328        | 271 0191 906                 | Transistor 2SA1048(GR)                        |                |       |
| S751~753  | 212 4388 907 | Tact Switch            |            | 3    | TR329        | 273 0317 906                 | Transistor 2SC2458(BL)                        |                |       |
| S766~768  | 212 4388 907 | Tact Switch            |            | 3    | TR330        | 273 0317 906                 | Transistor 2SC2458(BL)                        |                |       |
| L601      | 235 0060 989 | Inductor 120mH         |            | 1    | TR331        | 271 0191 906                 | Transistor 2SA1048(GR)                        |                |       |
| L751      | 235 0060 989 | Inductor 120mH         |            | 1    | TR332        | 273 0317 906                 | Transistor 2SC2458(BL)                        |                |       |
|           | 214 0162 000 | Relay (A12W-K)         |            | 1 1  |              |                              | ,   |                |       |
|           | 204 8410 003 | 2p Pin Jack (C-GND)    | Hi-Vision  | 1    | D314         | 276 0432 903                 | Diode 1SS270A                                 |                |       |
| CN7F      | 205 0748 077 | JL Conn.(R)            | 7P         | 1    |              |                              |   |                |       |
| CN11A     | 205 0536 098 | 11P Conn. Socket       |            | 2    | ZD304        | 276 0465 909                 | Zener Diode HZS7B-1                           | 7V             |       |
| CN12A,B   | 205 0536 027 | 12P Conn. Socket       |            | 2    | []           |                              |   |                |       |
| CN3I-J    | 205 0343 032 | 3P Conn. Base(KR-PH)   |            | 3    | SC301        | 279 0016 904                 | Thyristor SF0R1A42                            |                |       |
| CN5B      | 205 0343 058 | 5P Conn. Base(KR-PH)   |            | 1    | 11           |                              |   |                |       |
| CN21A     | 205 0673 016 | 21P FFC SID Conn. Base |            | 1    | RESISTO      | RS GROUP                     | I.  |                |       |
|           |              |                        |            |      |              |                              | Film ±5 1/4W Type.Refer                       | to the Scamat  | tic   |
|           |              |                        | · ·        |      | 11           | for those Pa                 |   | to the occina  |       |
|           |              |                        |            |      | <u></u>      | 244 2043 940                 | Metal Oxide 2:2kohm 1W(NB)                    | RS14B3A222JNI  | 38(8) |
|           |              |                        |            |      | ⚠ R274       |                              | Oarpon Film 220ohm 1/4W(NB)                   | RD14B2E221JN   |       |
|           |              |                        |            |      | CAPACIT      | ORS GROUP                    |   |                |       |
|           |              |                        |            |      | C101         | 254 4260 948                 | Electrolytic 1µF/50V                          | CE04W1H010M    |       |
|           |              |                        |            |      | C102         | 254 4260 948                 | Electrolytic 1µF/50V                          | CE04W1H010M    |       |
|           |              |                        |            |      | C342         | 254 4260 993                 | Electrolytic 22µF/50V                         | CE04W1H220M    |       |
|           |              |                        |            |      | C343         | 254 4250 945                 | Electrolytic 330μF/6.3V                       | CE04W1H220M    |       |
|           |              |                        |            |      | C344         | 254 4250 945                 | Electrolytic 330µF/6.3V                       | CE04W0J331M    |       |
|           | .            |                        |            |      | C347         | 254 4261 905                 | Electrolytic 33µF/50V                         | CE04W1H330M    |       |
|           |              |                        |            |      | 004/         | 204 4201 300                 | Liediotytic som 750 v                         | OEU4441F1000WI |       |
|           |              |                        |            |      | OTHER G      | ROUP                         |   |                | Q'ty  |
|           |              |                        |            | _    |              |                              | (P.W.Board)                                   |                | (1)   |
|           |              | •                      |            |      |              | 204 8393 007                 | 4P Pin Jack(S-GND)                            |                | 2     |
|           |              |                        |            |      | CN6B         | 205 0240 004                 | 6 P Conn. Base(KR-PH)                         |                | .     |
|           |              |                        |            |      | CN7D         | 205 0343 061                 |   |                |       |
|           |              |                        |            |      | CN7D<br>CN9F | 205 0731 071<br>205 0748 093 | 7 P Conn. Base-L(9131)<br>9 P JL Connector(R) |                | 1     |
|           |              |                        |            |      | CMal         | 200 0740 093                 | 9 F JL Colinector(H)                          |                | 1 1   |
|           |              |                        |            |      |              |                              |   |                |       |
|           |              |                        |            |      |              |                              |   |                |       |
|           |              |                        |            |      |              |                              | ,   |                |       |
|           |              |                        |            |      |              |                              |   |                |       |
|           |              |                        |            |      |              |                              |   |                |       |
|           |              |                        |            |      |              |                              |   |                |       |
|           |              |                        |            |      |              |                              |   |                |       |
|           |              |                        |            |      |              |                              |   |                |       |
|           |              |                        |            | 1    |              |                              |   |                |       |
|           |              |                        |            |      | 1            |                              |   | :              |       |
|           |              |                        |            |      |              |                              |   |                |       |
|           | }            |                        |            |      |              |                              |   |                |       |
|           |              |                        |            |      |              |                              |   |                |       |
|           |              |                        |            |      |              |                              |   |                |       |
|           |              |                        |            |      |              |                              |   |                |       |
|           |              |                        |            |      |              |                              |   |                |       |
|           |              |                        |            |      |              |                              |   |                |       |

CN5B

IU-2543D-I SURROUND

VOLUME

(I)—(GND >-(2) CENTER

<u>| 0003</u>

V-AUX INPUT

1U-2540D-3

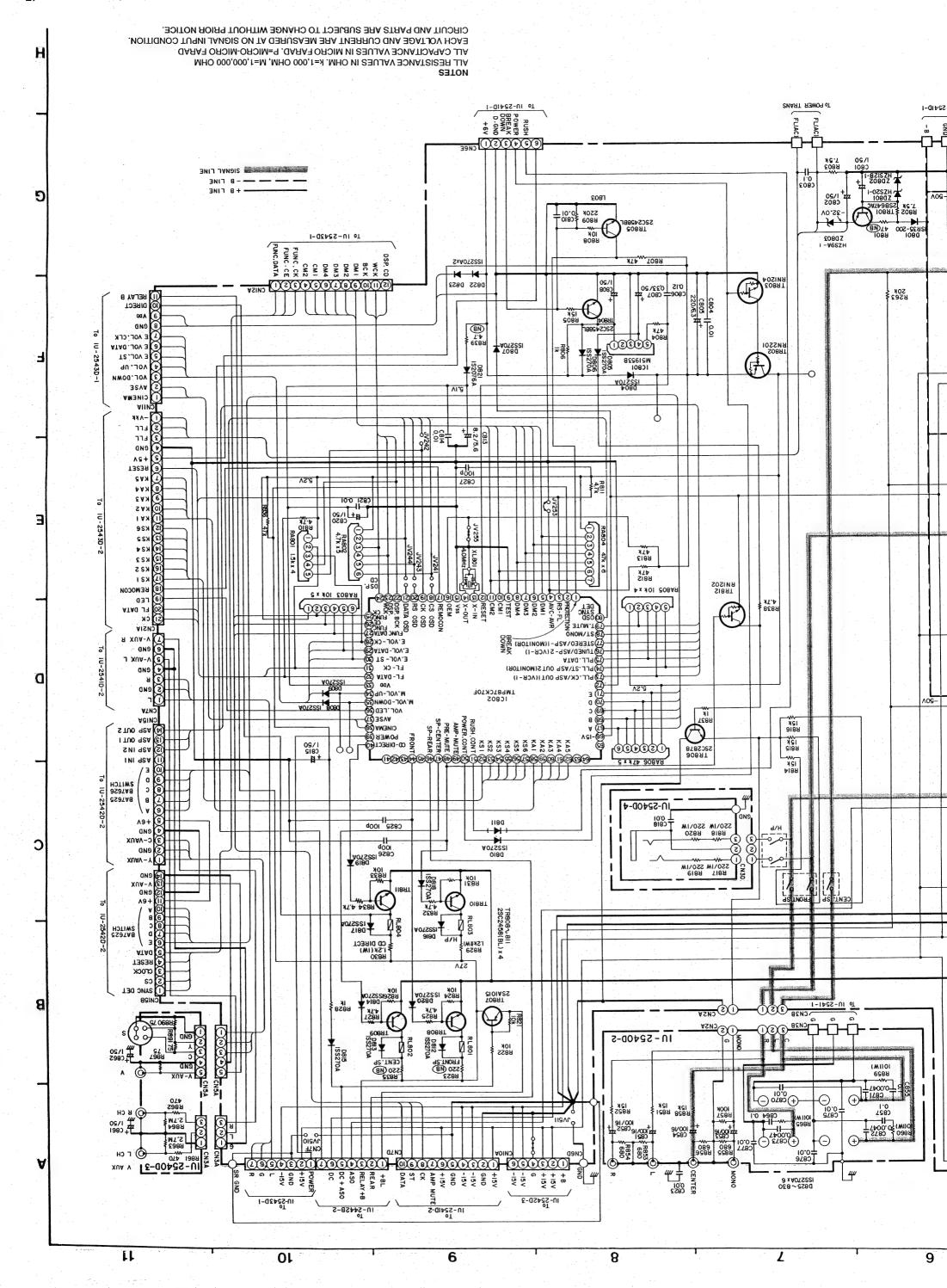
10-25430-2

L<sub>@</sub>--@-

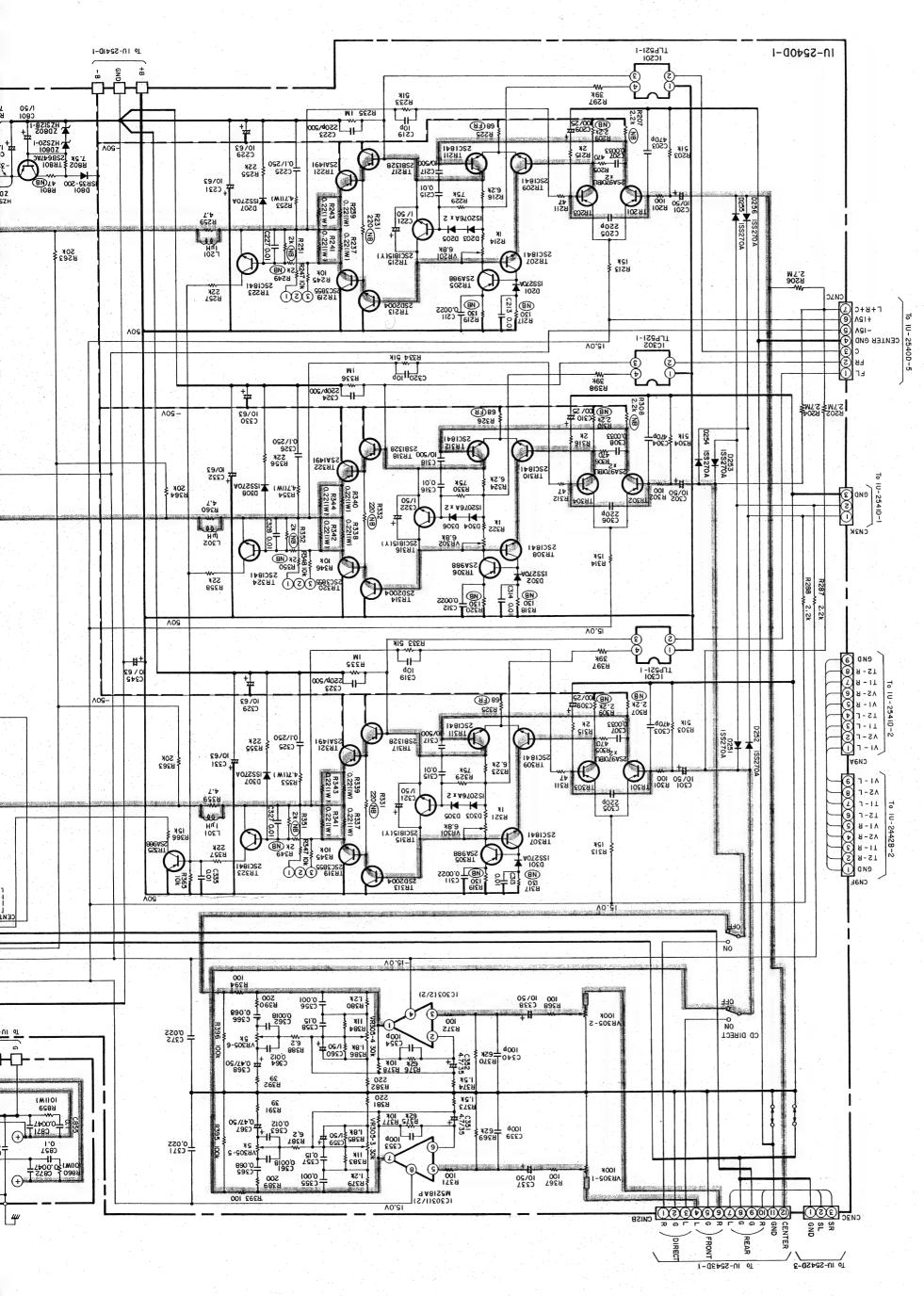
HEAD PHONE

1U-2540D-4

DESS:DA

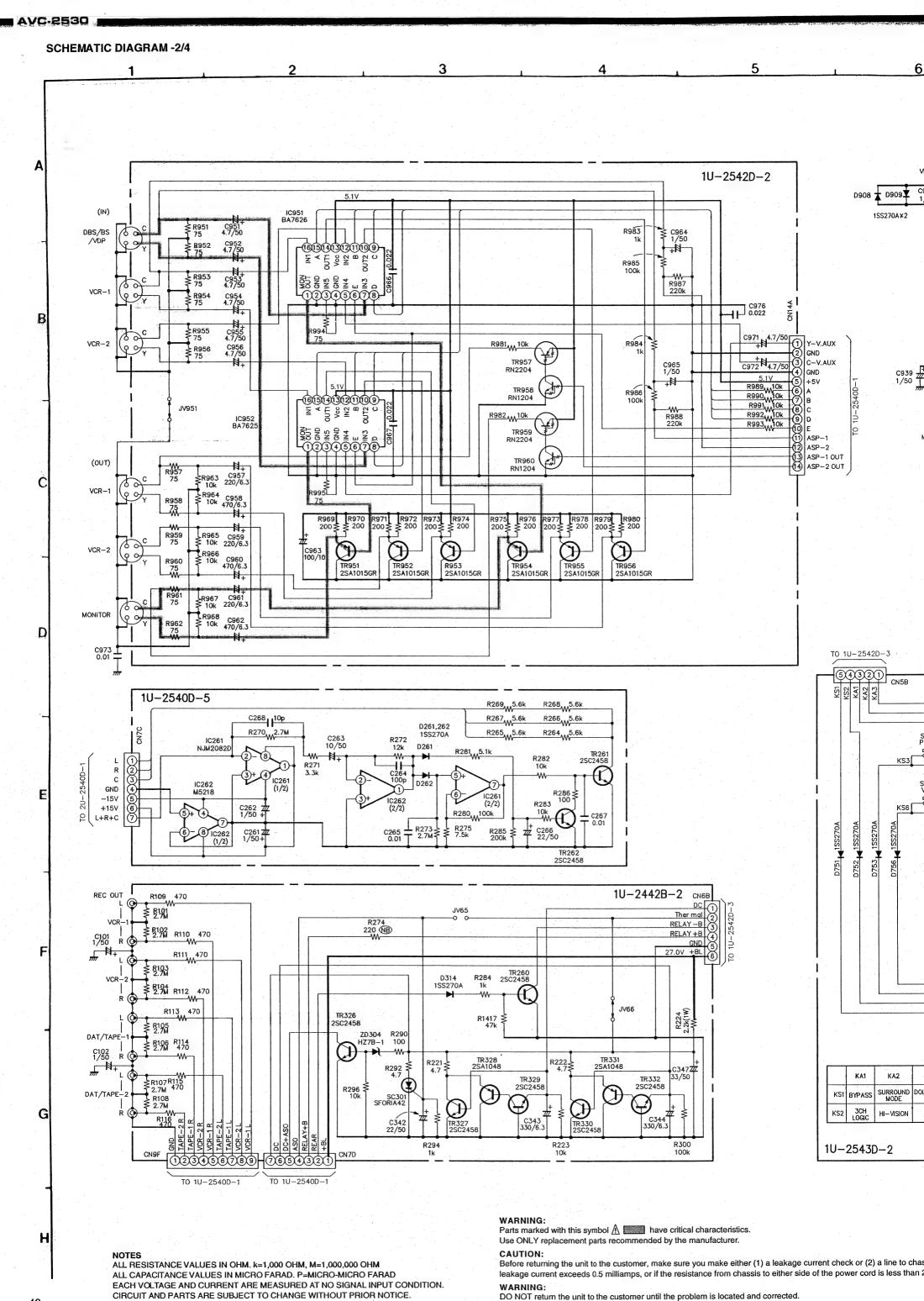


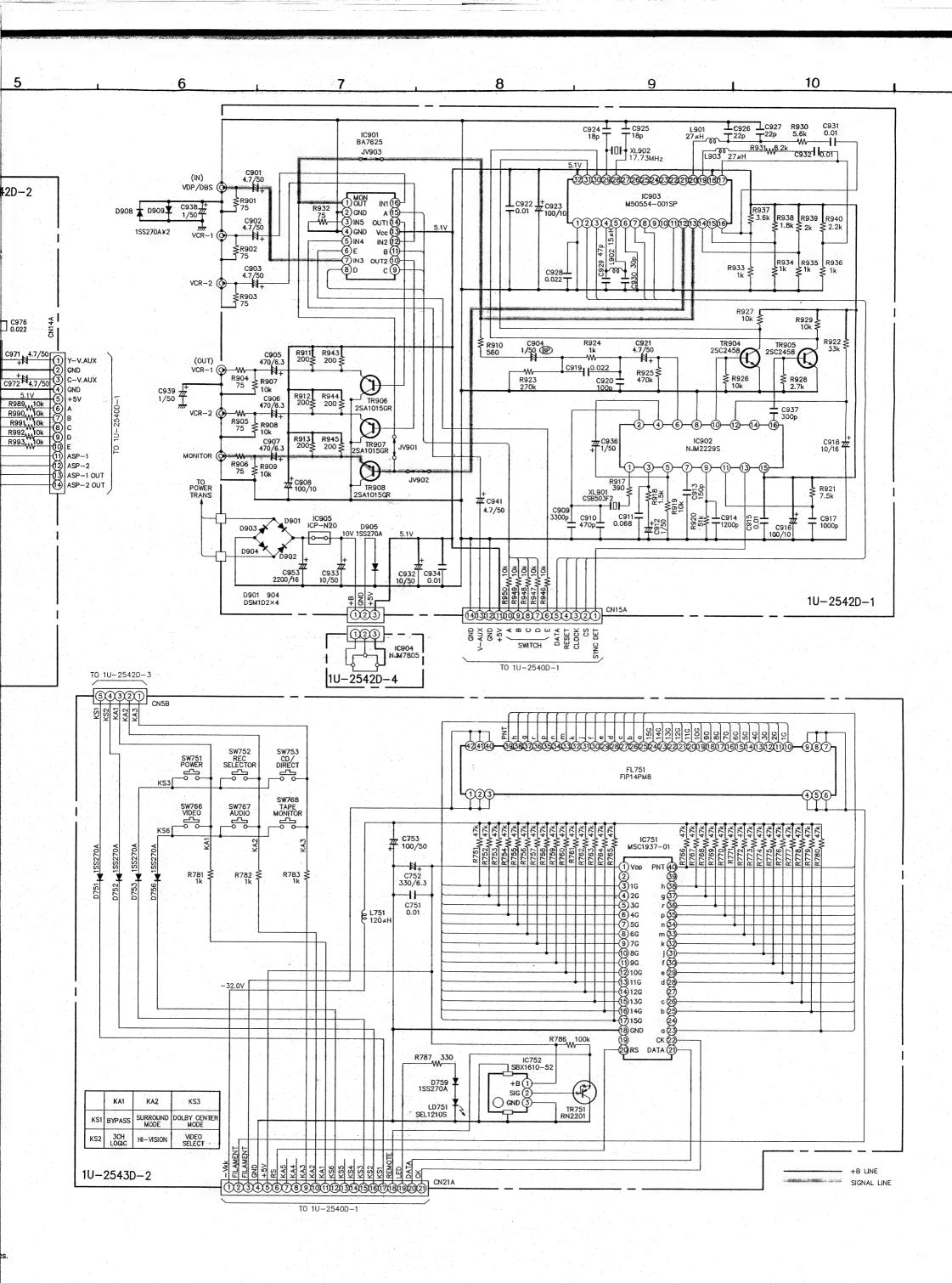
3

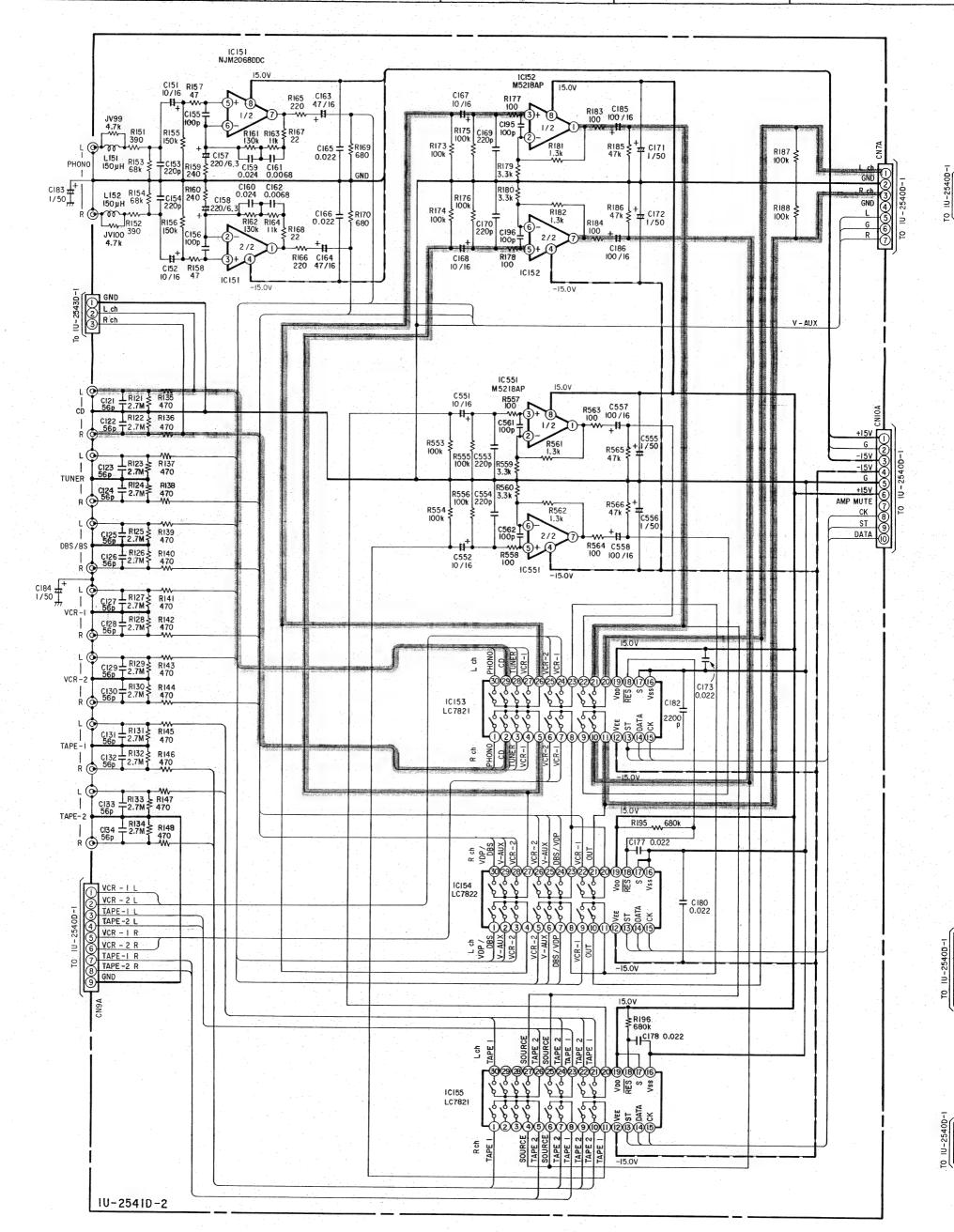


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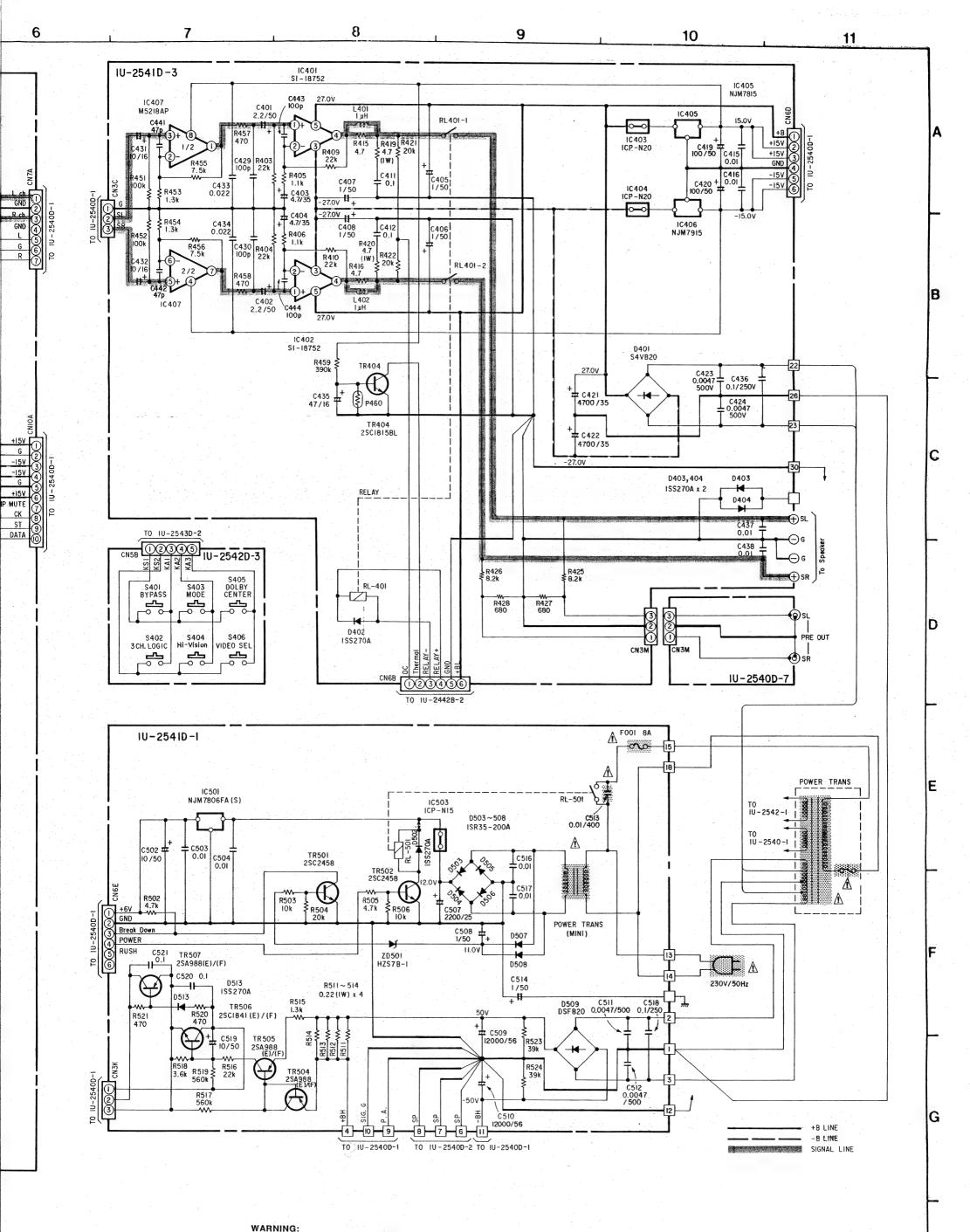
9







ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FA EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL IN CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR



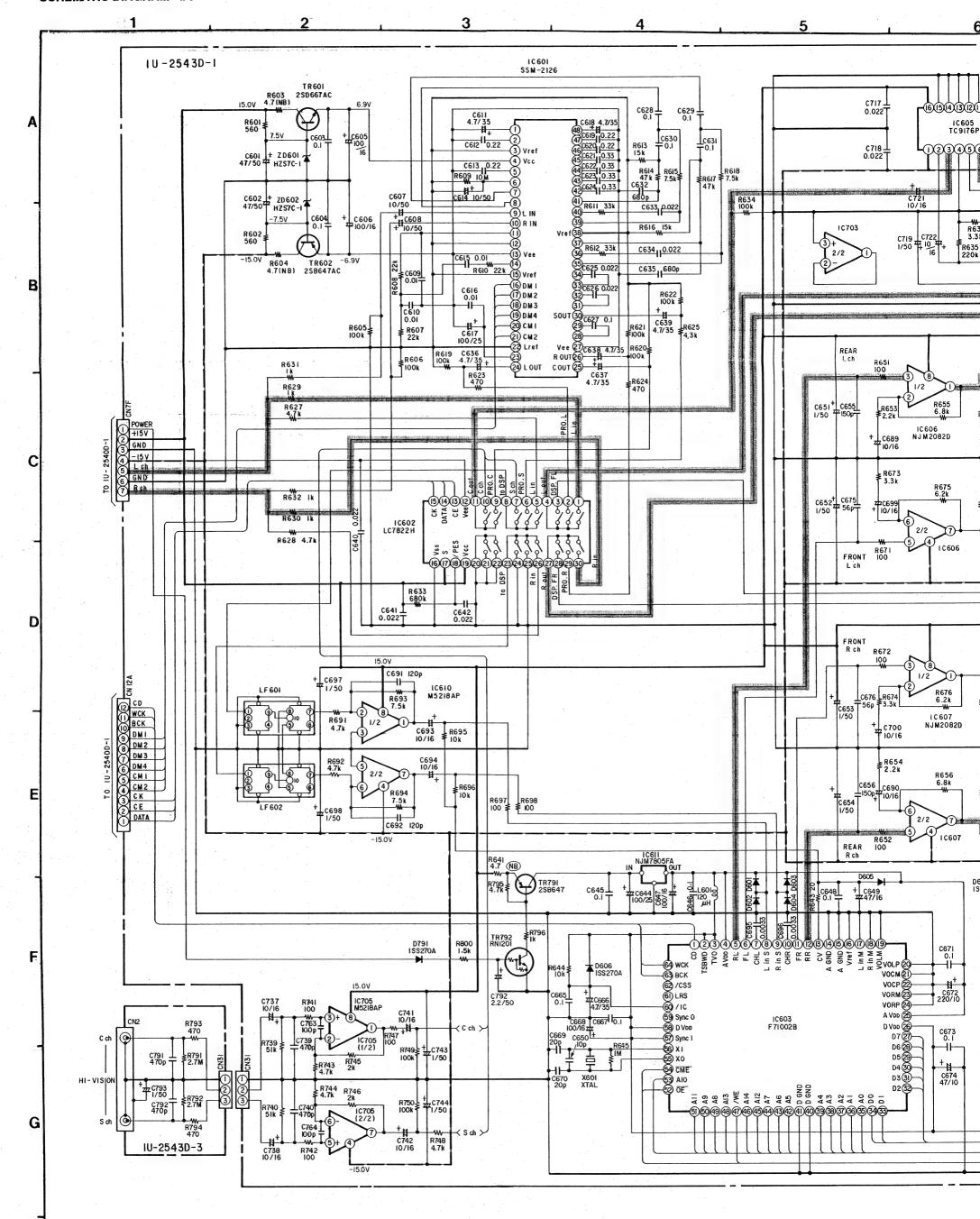
00 OHM, M=1,000,000 OHM RAD. P=MICRO-MICRO FARAD ASURED AT NO SIGNAL INPUT CONDITION. HANGE WITHOUT PRIOR NOTICE.

Parts marked with this symbol \(\frac{\hat{\lambda}}{\text{loss}}\) have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 240 kohms, the unit is defective.

DO NOT return the unit to the customer until the problem is located and corrected.

**SCHEMATIC DIAGRAM -4/4** 



WARNING:

Parts marked with this symbol A have critical characteristics.

Use ONLY replacement parts recommended by the manufacturer.

# **CAUTION:**

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 240 kohms, the unit is defective.

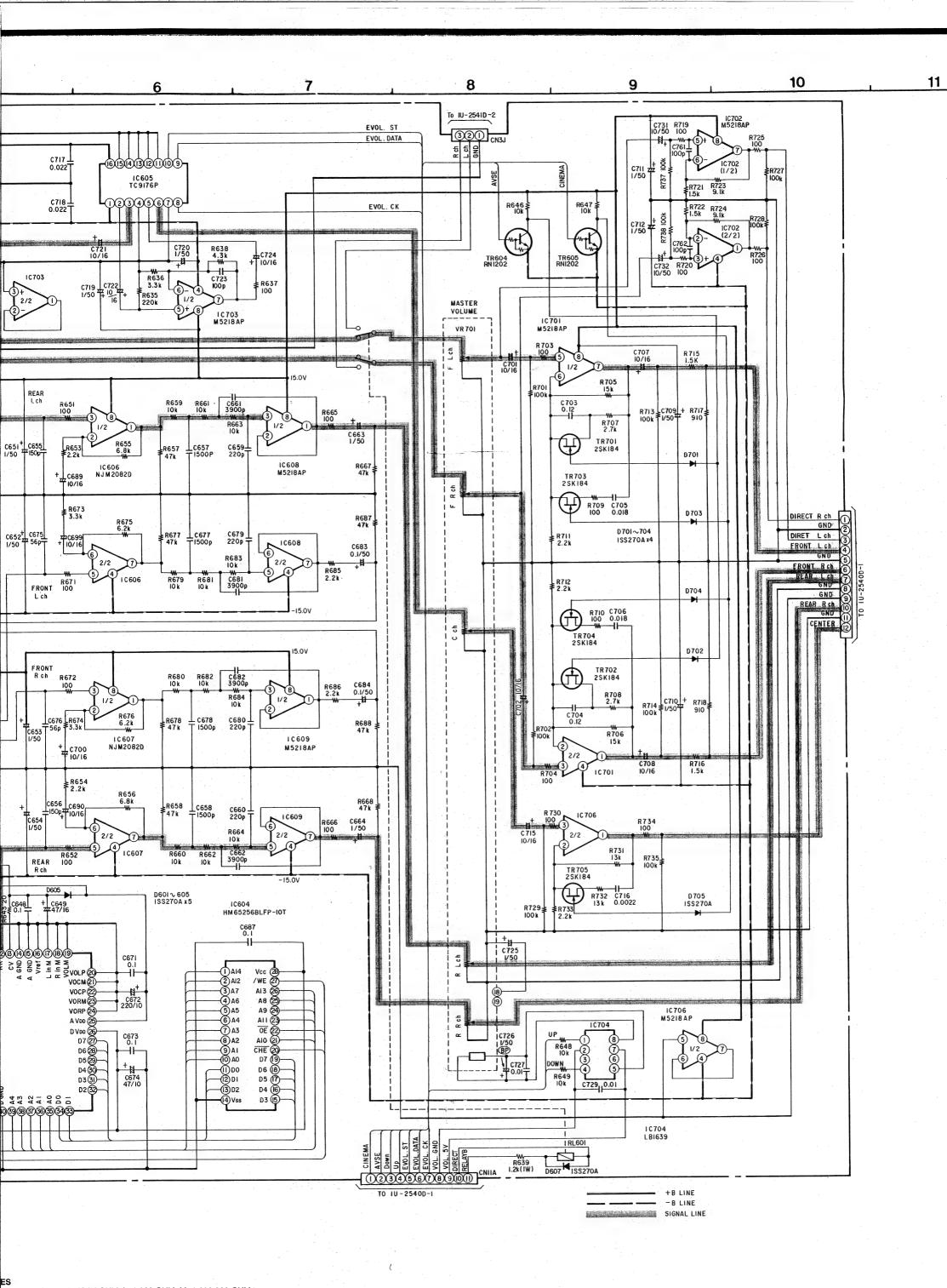
# WARNING:

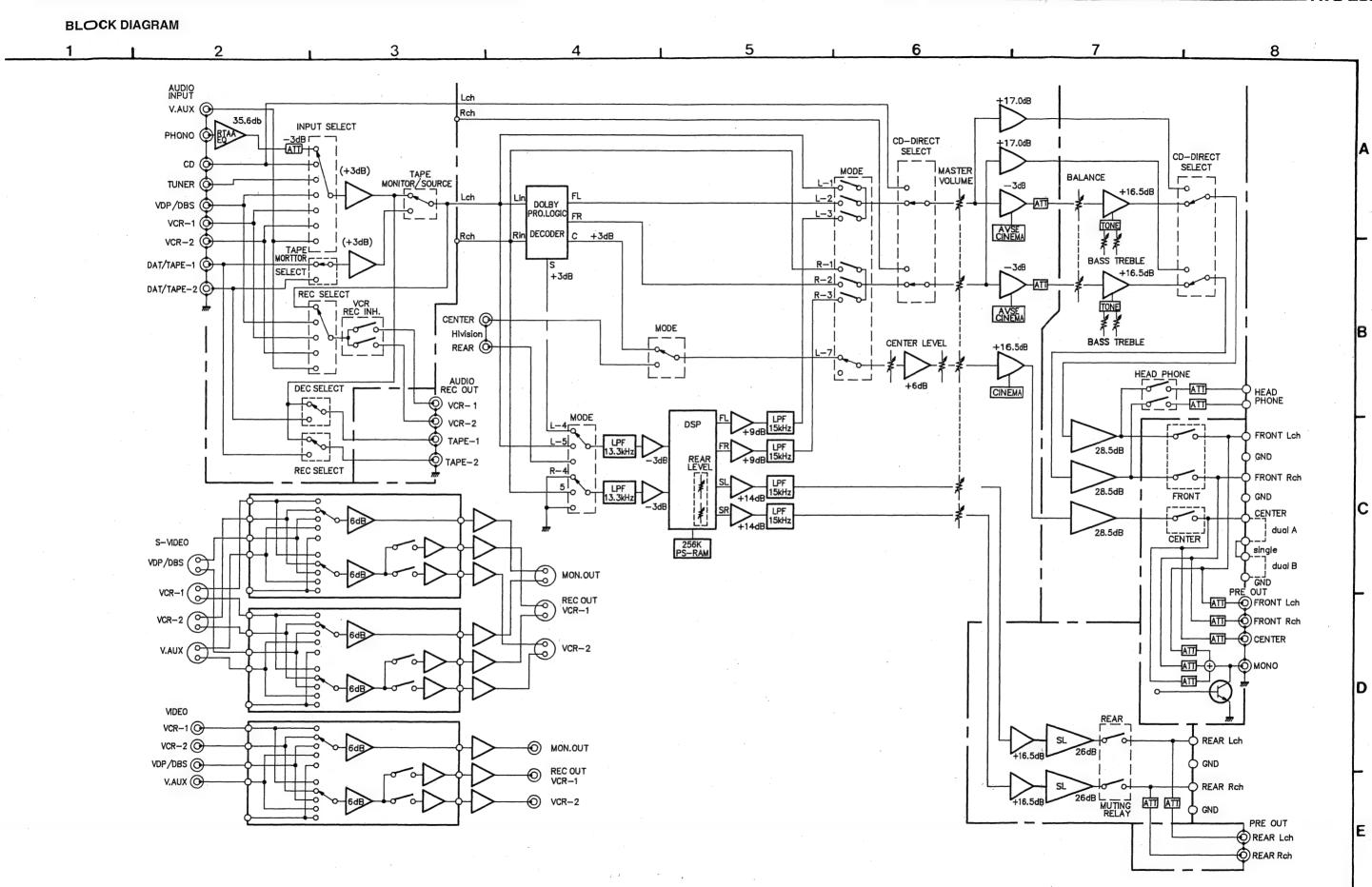
DO NOT return the unit to the customer until the problem is located and corrected.

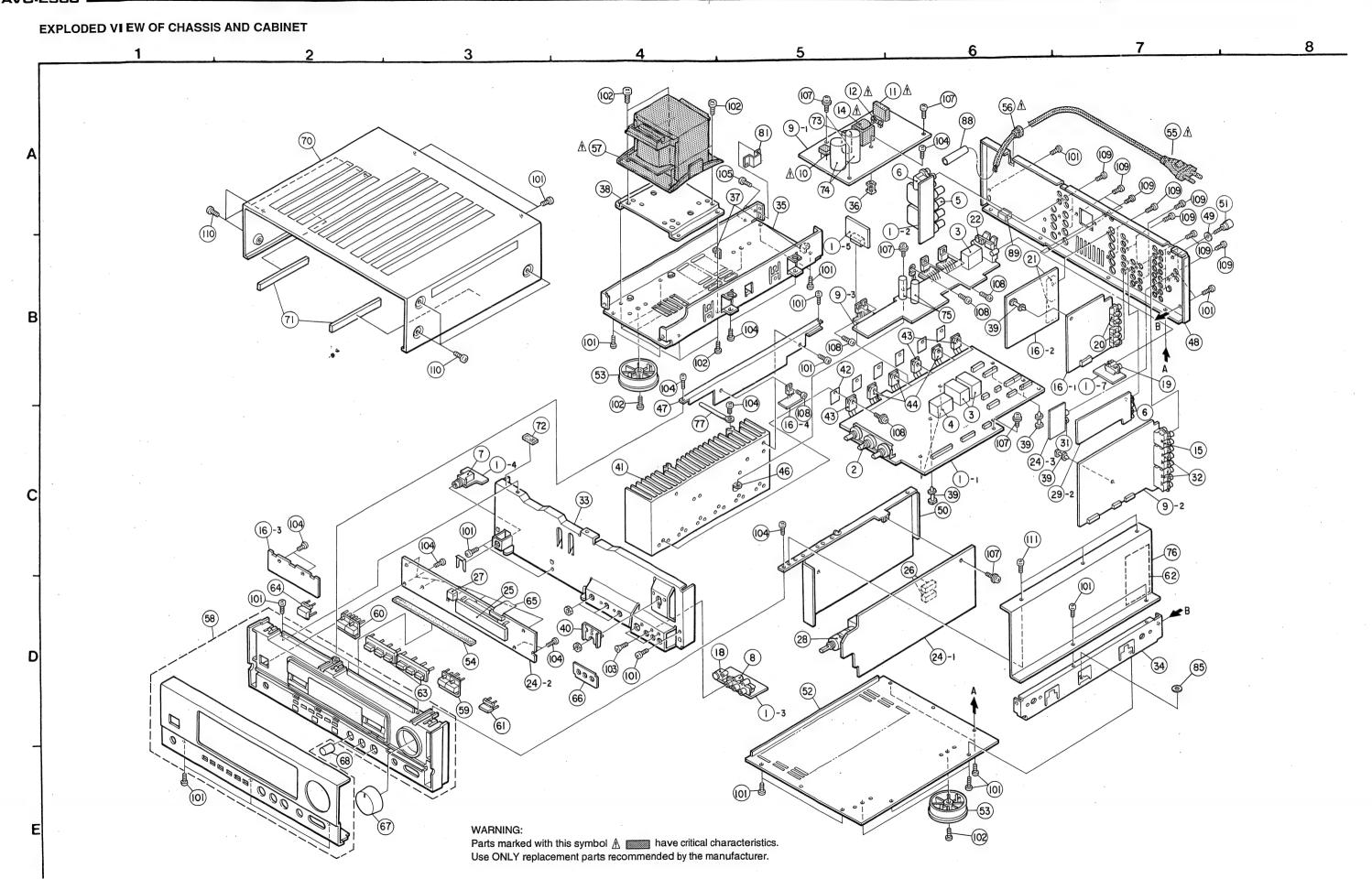
NOTES ALL RESISTANCE VALUES IN OHM. k=1,000 O ALL CAPACITANCE VALUES IN MICRO FARAD EACH VOLTAGE AND CURRENT ARE MEASU

CIRCUIT AND PARTS ARE SUBJECT TO CHAN

H







# PARTS LIST OF EXPLODED VIEW

| • [                                     | 1<br>1-1-1<br>1-2<br>1-3<br>1-4<br>1-5<br>1-7<br>2<br>3<br>4<br>4<br>5<br>6<br>6<br>7<br>8<br>9<br>9-1<br>9-2<br>9-3<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>16<br>16<br>17<br>17<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18 | 1U-2540D  211 0760 005 214 9003 005 214 0162 000 205 0484 014 204 8393 007 204 8341 004 204 8342 003 1U-2541D  276 0356 005 214 0120 013 206 1015 074  233 6058 009 204 8312 004        | Main Amp Unit Ass'y Main Amp Unit SP Pre out Unit V-Aux Unit Headphone Unit OPT Unit Rear Preout Unit Variable Resistor Relay Relay(A12W-K) 8P SP Terminal 4P Pin Jack(S-GND) Headphone Jack 3P Pin Jack(C-GND) Power Input Unit Ass'y Power Supply Unit Audio Input Unit Rear Amp Unit Diode D5FB20(4001) Relay(TV-8) Fuse 3.15A — Power Trans(Mini) | Balance, Tone D509 F001  | 15<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>1<br>3<br>3<br>1<br>1<br>1<br>1<br>5<br>(1)<br>(1)<br>(1)<br>(1)<br>(1) |
|---|--|---|---|--|--|
| • [                                     | 1-1-1<br>1-2<br>1-3<br>1-4<br>1-5<br>1-7<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>9-1<br>9-2<br>9-3<br>10<br>11<br>12<br>13<br>14<br>15<br>16  |   | Main Amp Unit SP Pre out Unit V-Aux Unit Headphone Unit OPT Unit Rear Preout Unit Variable Resistor Relay Relay(A12W-K) 8P SP Terminal 4P Pin Jack(S-GND) Headphone Jack 3P Pin Jack(C-GND) Power Input Unit Ass'y Power Supply Unit Audio Input Unit Rear Amp Unit Diode D5FB20(4001) Relay(TV-8) Fuse 3.15A Power Trans(Mini)                       | D509   | (1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>1<br>3<br>3<br>1<br>1<br>1<br>5<br>(1)<br>(1)<br>(1)<br>(1)                          |
| • [ A A A A A                           | 1-2<br>1-3<br>1-4<br>1-5<br>1-7<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>9-1<br>9-2<br>9-3<br>10<br>11<br>12<br>13<br>14<br>15<br>16   | 214 9003 005<br>214 0162 000<br>205 0484 014<br>204 8393 007<br>204 8341 004<br>204 8342 003<br>1U-2541D<br>—<br>—<br>276 0356 005<br>214 0120 013<br>206 1015 074<br>—<br>233 6058 009 | V-Aux Unit Headphone Unit OPT Unit Rear Preout Unit Variable Resistor Relay Relay(A12W-K) 8P SP Terminal 4P Pin Jack(S-GND) Headphone Jack 3P Pin Jack(C-GND) Power Input Unit Ass'y Power Supply Unit Audio Input Unit Rear Amp Unit Diode D5FB20(4001) Relay(TV-8) Fuse 3.15A Power Trans(Mini)   | D509   | (1)<br>(1)<br>(1)<br>(1)<br>(1)<br>1<br>3<br>3<br>1<br>1<br>1<br>1<br>1<br>(1)<br>(1)<br>(1)<br>(1)                            |
| • [ A A A A A A A A A A A A A A A A A A | 1-3<br>1-4<br>1-5<br>1-7<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>9-1<br>9-2<br>9-3<br>10<br>11<br>12<br>13<br>14<br>15<br>16  | 214 9003 005<br>214 0162 000<br>205 0484 014<br>204 8393 007<br>204 8341 004<br>204 8342 003<br>1U-2541D<br>—<br>—<br>276 0356 005<br>214 0120 013<br>206 1015 074<br>—<br>233 6058 009 | Headphone Unit OPT Unit Rear Preout Unit Variable Resistor Relay Relay(A12W-K) 8P SP Terminal 4P Pin Jack(S-GND) Headphone Jack 3P Pin Jack(C-GND) Power Input Unit Ass'y Power Supply Unit Audio Input Unit Rear Amp Unit Diode D5FB20(4001) Relay(TV-8) Fuse 3.15A Power Trans(Mini)  | D509   | (1)<br>(1)<br>(1)<br>1<br>3<br>3<br>1<br>1<br>1<br>1<br>5<br>(1)<br>(1)<br>(1)   |
|   | 1-4<br>1-5<br>1-7<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>9-1<br>9-2<br>9-3<br>10<br>11<br>12<br>13<br>14<br>15<br>16   | 214 9003 005<br>214 0162 000<br>205 0484 014<br>204 8393 007<br>204 8341 004<br>204 8342 003<br>1U-2541D<br>—<br>—<br>276 0356 005<br>214 0120 013<br>206 1015 074<br>—<br>233 6058 009 | OPT Unit Rear Preout Unit Variable Resistor Relay Relay(A12W-K) 8P SP Terminal 4P Pin Jack(S-GND) Headphone Jack 3P Pin Jack(C-GND) Power Input Unit Ass'y Power Supply Unit Audio Input Unit Rear Amp Unit Diode D5FB20(4001) Relay(TV-8) Fuse 3.15A Power Trans(Mini)   | D509   | (1)<br>(1)<br>1<br>3<br>3<br>1<br>1<br>1<br>1<br>(1)<br>(1)<br>(1)   |
|   | 1-5<br>1-7<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>9-1<br>9-2<br>9-3<br>10<br>11<br>12<br>13<br>14<br>15<br>16  | 214 9003 005<br>214 0162 000<br>205 0484 014<br>204 8393 007<br>204 8341 004<br>204 8342 003<br>1U-2541D<br>—<br>—<br>276 0356 005<br>214 0120 013<br>206 1015 074<br>—<br>233 6058 009 | OPT Unit Rear Preout Unit Variable Resistor Relay Relay(A12W-K) 8P SP Terminal 4P Pin Jack(S-GND) Headphone Jack 3P Pin Jack(C-GND) Power Input Unit Ass'y Power Supply Unit Audio Input Unit Rear Amp Unit Diode D5FB20(4001) Relay(TV-8) Fuse 3.15A Power Trans(Mini)   | D509   | (1)<br>1<br>3<br>3<br>1<br>3<br>1<br>1<br>1<br>(1)<br>(1)<br>(1)   |
|   | 1-7<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>9-1<br>9-2<br>9-3<br>10<br>11<br>12<br>13<br>14<br>15<br>16   | 214 9003 005<br>214 0162 000<br>205 0484 014<br>204 8393 007<br>204 8341 004<br>204 8342 003<br>1U-2541D<br>—<br>—<br>276 0356 005<br>214 0120 013<br>206 1015 074<br>—<br>233 6058 009 | Variable Resistor Relay Relay(A12W-K) 8P SP Terminal 4P Pin Jack(S-GND) Headphone Jack 3P Pin Jack(C-GND) Power Input Unit Ass'y Power Supply Unit Audio Input Unit Rear Amp Unit Diode D5FB20(4001) Relay(TV-8) Fuse 3.15A Power Trans(Mini)   | D509   | 1<br>3<br>3<br>1<br>3<br>1<br>1<br>1<br>5<br>(1)<br>(1)<br>(1)   |
|   | 2 3 4 4 5 6 6 7 8 8 9 9 9 1 10 11 12 13 14 15 16   | 214 9003 005<br>214 0162 000<br>205 0484 014<br>204 8393 007<br>204 8341 004<br>204 8342 003<br>1U-2541D<br>—<br>—<br>276 0356 005<br>214 0120 013<br>206 1015 074<br>—<br>233 6058 009 | Variable Resistor Relay Relay(A12W-K) 8P SP Terminal 4P Pin Jack(S-GND) Headphone Jack 3P Pin Jack(C-GND) Power Input Unit Ass'y Power Supply Unit Audio Input Unit Rear Amp Unit Diode D5FB20(4001) Relay(TV-8) Fuse 3.15A Power Trans(Mini)   | D509   | 1<br>3<br>3<br>1<br>3<br>1<br>1<br>1<br>5<br>(1)<br>(1)<br>(1)   |
| <u>^</u>                                | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>9-1<br>9-2<br>9-3<br>10<br>11<br>12<br>13<br>14<br>15<br>16   | 214 9003 005<br>214 0162 000<br>205 0484 014<br>204 8393 007<br>204 8341 004<br>204 8342 003<br>1U-2541D<br>—<br>—<br>276 0356 005<br>214 0120 013<br>206 1015 074<br>—<br>233 6058 009 | Relay Relay(A12W-K) 8P SP Terminal 4P Pin Jack(S-GND) Headphone Jack 3P Pin Jack(C-GND) Power Input Unit Ass'y Power Supply Unit Audio Input Unit Rear Amp Unit Diode D5FB20(4001) Relay(TV-8) Fuse 3.15A Power Trans(Mini)   | D509   | 3<br>1<br>3<br>1<br>1<br>1<br>(1)<br>(1)<br>(1)  |
| <u>^</u>                                | 4<br>5<br>6<br>7<br>8<br>9<br>9-1<br>9-2<br>9-3<br>10<br>11<br>12<br>13<br>14<br>15<br>16  | 214 0162 000<br>205 0484 014<br>204 8393 007<br>204 8341 004<br>204 8342 003<br>1U-2541D<br>—<br>—<br>276 0356 005<br>214 0120 013<br>206 1015 074<br>—<br>233 6058 009                 | Relay(A12W-K) 8P SP Terminal 4P Pin Jack(S-GND) Headphone Jack 3P Pin Jack(C-GND) Power Input Unit Ass'y Power Supply Unit Audio Input Unit Rear Amp Unit Diode D5FB20(4001) Relay(TV-8) Fuse 3.15A Power Trans(Mini)   |  | 1 3 1 1 1 1 S (1) (1) (1) 1 1  |
| <u>^</u>                                | 5<br>6<br>7<br>8<br>9<br>9-1<br>9-2<br>9-3<br>10<br>11<br>12<br>13<br>14<br>15<br>16   | 205 0484 014<br>204 8393 007<br>204 8341 004<br>204 8342 003<br>1U-2541D<br>————————————————————————————————————  | 8P SP Terminal 4P Pin Jack(S-GND) Headphone Jack 3P Pin Jack(C-GND) Power Input Unit Ass'y Power Supply Unit Audio Input Unit Rear Amp Unit Diode D5FB20(4001) Relay(TV-8) Fuse 3.15A Power Trans(Mini)   |  | 3<br>1<br>1<br>1 <sup>S</sup><br>(1)<br>(1)<br>(1)   |
| <u>^</u>                                | 6<br>7<br>8<br>9<br>9-1<br>9-2<br>9-3<br>10<br>11<br>12<br>13<br>14<br>15<br>16  | 204 8393 007<br>204 8341 004<br>204 8342 003<br>1U-2541D —<br>—<br>276 0356 005<br>214 0120 013<br>206 1015 074 —<br>233 6058 009   | 4P Pin Jack(S-GND) Headphone Jack 3P Pin Jack(C-GND) Power Input Unit Ass'y Power Supply Unit Audio Input Unit Rear Amp Unit Diode D5FB20(4001) Relay(TV-8) Fuse 3.15A Power Trans(Mini)  |  | 1 1 1 1 1 1 (1) (1) (1) 1 1 1  |
| <u>^</u>                                | 7<br>8<br>9<br>9-1<br>9-2<br>9-3<br>10<br>11<br>12<br>13<br>14<br>15<br>16   | 204 8341 004<br>204 8342 003<br>1U-2541D<br>————————————————————————————————————  | Headphone Jack 3P Pin Jack(C-GND) Power Input Unit Ass'y Power Supply Unit Audio Input Unit Rear Amp Unit Diode D5FB20(4001) Relay(TV-8) Fuse 3.15A Power Trans(Mini)   |  | 1 1 <sup>S</sup> (1) (1) (1) 1 1   |
| <u>^</u>                                | 8 9 9-1 9-2 9-3 10 11 12 13 14 15 16   | 204 8342 003<br>1U-2541D — — — — — — — — — — — — — — — — — — —  | 3P Pin Jack(C-GND) Power Input Unit Ass'y Power Supply Unit Audio Input Unit Rear Amp Unit Diode D5FB20(4001) Relay(TV-8) Fuse 3.15A Power Trans(Mini)  |  | 1 <sup>S</sup> (1) (1) (1) (1) 1   |
| <u>^</u>                                | 9<br>9-1<br>9-2<br>9-3<br>10<br>11<br>12<br>13<br>14<br>15   | 1U-2541D<br>—<br>276 0356 005<br>214 0120 013<br>206 1015 074<br>—<br>233 6058 009  | Power Input Unit Ass'y Power Supply Unit Audio Input Unit Rear Amp Unit Diode D5FB20(4001) Relay(TV-8) Fuse 3.15A Power Trans(Mini)   |  | (1)<br>(1)<br>(1)<br>(1)   |
| <u>^</u>                                | 9-1<br>9-2<br>9-3<br>10<br>11<br>12<br>13<br>14<br>15  | 276 0356 005<br>214 0120 013<br>206 1015 074<br>—<br>233 6058 009   | Power Supply Unit Audio Input Unit Rear Amp Unit Diode D5FB20(4001) Relay(TV-8) Fuse 3.15A Power Trans(Mini)  |  | (1)<br>(1)<br>1  |
|   | 9-2<br>9-3<br>10<br>11<br>12<br>13<br>14<br>15<br>16   | 214 0120 013<br>206 1015 074<br>—<br>233 6058 009   | Audio Input Unit Rear Amp Unit Diode D5FB20(4001) Relay(TV-8) Fuse 3.15A Power Trans(Mini)  |  | (1)<br>(1)<br>1  |
| <u>^</u>                                | 9-3<br>10<br>11<br>12<br>13<br>14<br>15<br>16  | 214 0120 013<br>206 1015 074<br>—<br>233 6058 009   | Rear Amp Unit Diode D5FB20(4001) Relay(TV-8) Fuse 3.15A — Power Trans(Mini)   |  | (1)<br>1   |
| <u>^</u>                                | 10<br>11<br>12<br>13<br>14<br>15<br>16   | 214 0120 013<br>206 1015 074<br>—<br>233 6058 009   | Diode D5FB20(4001) Relay(TV-8) Fuse 3.15A — Power Trans(Mini)   |  | 1  |
| <b>A</b> ■ [                            | 11<br>12<br>13<br>14<br>15<br>16   | 214 0120 013<br>206 1015 074<br>—<br>233 6058 009   | Relay(TV-8) Fuse 3.15A — Power Trans(Mini)  |  |  |
| <b>A</b> ■ [                            | 12<br>13<br>14<br>15<br>16   | 206 1015 074<br>—<br>233 6058 009   | Fuse 3.15A  Power Trans(Mini)   | F001   |  |
| <u> </u>                                | 13<br>14<br>15<br>16   | <br>233 6058 009  | Power Trans(Mini)   |  | a Circus Pans  |
| •                                       | 14<br>15<br>16   |   |   |  |  |
| •                                       | 15<br>16   |   |   | Transport Committee Commit | 1  |
|   | 16   | 204 03 12 004   | 4P Pin Jack   | Gold Flash   | 1  |
|   |  | 1U-2542D  | Video Unit Ass'y  |  | 18   |
|   | 40 4   | 10-23420  | Video Unit  |  | (1)  |
|   | 16-1   | _   | S-Video Unit  |  | (1)  |
| 1 1                                     | 16-2   |   | Tact SW Unit  |  | (1)  |
|   | 16-3   | _   | Video Reg. Unit   |  | (1)  |
|   | 16-4   | _   | - Video Fieg. Offit   |  | '''  |
|   | 17   | 204 8427 009  | S-Terminal(3.5)   |  | 1  |
|   | 18   |   | 2P Pin Jack(C-GND)  |  | 1  |
|   | 19   | 204 8433 006 204 8394 006   | 3P Pin Jack(C-GND)  | Gold Flash   | 2  |
|   | 20   | 204 8415 008  | 3P S-Terminal   | Gold Flash   | 2  |
|   | 21   | 205 0592 003  | 4P Push Terminal  | Rear SP  | 1  |
|   | 22   | 1U-2543D  | Surround Unit Ass'v   | 1.104. 0.  | 15   |
| •                                       | 24   | 10-25450  | Surround Unit   |  | (1)  |
| 1 1                                     | 24-1<br>24-2   |   | VFD Unit  |  | (1)  |
| 1                                       |  | _   | Hi-Vision Unit  |  | (1)  |
| 1                                       | 24-3   | 393 4131 000  | FLD (FIP14PM8)  |  | 1  |
| •                                       | 25   |   | LC Filter   |  | 2  |
| 1                                       | 26   | 232 0168 002  | Remocon Receiver  | SBX1610-52   | 1  |
| 1                                       | 27   | 499 0150 008  | Variable Resistor 100kohm   | VR701  | 1  |
|   | 28   | 211 0759 003  | Audio Rec Unit Ass'y  |  | 15   |
| •                                       | 29   | 1U-2442B  | - Audio Fico Offic Ado y  | B 1  | '  |
| 1                                       | 29-1   |   | Audio Rec Unit  | × .  | (1)  |
| 1                                       | 29-2   |   |   |  | (")  |
| 1                                       | 30   | 204 8410 003  | 2P Pin Jack(C-GND)  | Hi-Vision  | 1  |
| 1                                       | 31   | 204 84 10 003   | 6P Pin Jack(S-GND)  |  | 2  |
|   | 32   | 411 1212 000  | Front Chassis Ass'y   |  | 1  |
| •                                       | 33   |   | Side Chassis  |  | 1  |
| •                                       | 34   | 411 1095 214  | Trans Chassis   |  | 1  |
| •                                       | 35   | 411 1094 613  | P.C.B Holder(T)   |  | 1  |
|   | 36   | 415 9032 006  | P.W.B Bracket   |  | 2  |
| •                                       | 37   | 412 3451 105  | Trans Bracket   | 4  | 1  |
| •                                       | 38   | 412 9160 607  | Card Spacer(L=10)   |  | 7  |
| •                                       | 39   | 412 2814 028  | VR.Bracket  |  | 1  |
| •                                       | 40   | 412 2897 100  |   |  | 1  |
| 1                                       |  | 417 0458 533  | Power Radiator(A)   |  |  |
| 1                                       | 41   | 415 0234 007  | Insulating Sheet  | Pair   | 6  |
|   | 41<br>42<br>43   | 271 0240 006  | Transistor 2SA1491(O/P/Y)(Z)  | Pair   | ا  |

| Re          | f. No.   | Part No.                     | Part Name                               | Remarks                               | Q'ty     |
|-------------|----------|------------------------------|---|---------------------------------------|----------|
| H           | 44       | 273 0389 002                 | Transistor 2SC3855(O/P/Y)(Z)            | Pair                                  | 3        |
|             | 45       | 2.000000                     | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |                                       |          |
| •           | 46       | 412 3427 003                 | L Bracket                               |                                       | 1        |
| •           | 47       | 412 3315 319                 | Radiator Bracket(A)                     |                                       | 1        |
| 1           | 48       | 105 1074 372                 | Rear Panel                              |                                       | 1        |
| ı           | 49       | 477 0018 001                 | Washer(P-87)                            |                                       | 1        |
| i           | 50       | 411 1177 200                 | Shield Chassis                          |                                       | 1        |
| 1           | 51       | 205 0071 016                 | Terminal Ass'y                          |                                       | 1        |
| 1           | 52       | 105 0965 107                 | Bottom Cover                            | -                                     | 1        |
| 1           | 53       | 104 0194 108                 | Foot Ass'y                              |                                       | 4        |
|             | 54       | 122 0183 049                 | Spacer                                  | e e                                   | 1        |
| $\Delta$    | 55       | 206 2063 009                 | AC Cord                                 | · 发展 摄                                | 1        |
| A<br>A      | 56       | 445 0056 008                 | Cord Bush                               | · · · · · · · · · · · · · · · · · · · | 1        |
| $\Delta$    | 57       | 233 6059 008                 | PowerTrans                              |                                       | 1        |
|             | 58       | 144 2268 522                 | Front Panel Ass'y                       |                                       | 1        |
| 1           | 59       | 113 1535 029                 | Function Knob(B)                        |                                       | 1        |
| 1           | 60       | 113 1535 061                 | Function Knob(B)                        |                                       | 1        |
|             | 61       | 113 1465 021                 | Push Knob(P)                            |                                       | 1        |
|             | 62       | 415 0445 045                 | Insulating Sheet                        | 80×40×T0.5                            | 1        |
|             | 63       | 113 1454 207                 | Tact Knob                               | -                                     | 2        |
|             | 64       | 113 1292 252                 | Push Knob(P)                            |                                       | 1        |
| 1           | 65       | 002 0047 001                 | 21C FF Cable(UL20624)                   |                                       | 1        |
| 1           | 66       | 146 9045 207                 | Blind Sheet                             |                                       | 1        |
| 1           | 67       | 112 0726 108<br>112 0685 100 | VR Knob Ass'y Knob(Round)               |                                       | 3        |
| 1.          | 68       | 445 8004 007                 | Wire Clamper                            |                                       | 10       |
| *           | 69<br>70 | 102 0406 531                 | Top Cover                               |                                       | 1        |
| 1           | 71       | 461 9001 043                 | Rubber Sheet                            | 10×70×T5                              | 2        |
| 1           | 72       | 461 0334 052                 | Rubber Sheet                            | 30×10×T10                             | 1        |
| 1           | 73       | 254 4256 790                 | Chemicon 2200µF/25V                     | C507                                  | 1        |
|             | 74       | 254 4365 720                 | Chemicon 12000µF/56V                    | C509, 510                             | 2        |
|             | 75       | 254 4259 726                 | Chemicon 4700µF/35V                     | C421, 422                             | 2        |
| .]          | 76       | 414 0685 006                 | Shield Cover                            |                                       | 1        |
| 1           | 77       | 445 0048 003                 | Cord Holder(L76)                        |                                       | 1        |
| 1           | 78       | _                            | _                                       |                                       |          |
| 1           | 79       | _                            | _                                       |                                       | 1        |
|             | 80       | _                            | _                                       |                                       |          |
| •           | 81       | 412 2955 107                 | Side Bracket                            |                                       | 1        |
| 1           | 82       | -                            | _                                       |                                       |          |
|             | 83       | -                            | _                                       |                                       |          |
|             | 84       | -                            |   |                                       |          |
|             | 85       | 477 0224 031                 | SP Washer                               |                                       | 1        |
|             | 86       | _                            | _                                       | - F                                   |          |
|             | 87       | <del>-</del>                 | _                                       |                                       |          |
| $\triangle$ | 88       | 415 0546 070                 | UL Tube (\$ 8,3)                        | 160×8.3                               | 1        |
| 1           | 89       | 461 0574 074                 | Rubber Sheet                            |                                       | '        |
| -           | SCRE     | :WS                          |   |                                       | <u> </u> |
| -           | 101      | 473 7015 018                 | Tapping Screw(S)3x8                     | Black                                 | 31       |
|             | 102      | 473 7013 018                 | Tapping Screw(S)4x8                     | Black                                 | 12       |
|             | 103      | 473 7511 004                 | F.Tapping Screw(P)3x10                  |                                       | 3        |
| 1           | 104      | 473 7501 001                 | Tapping Screw(P)3x10                    |                                       | 20       |
|             | 105      | 473 7002 034                 | Tapping Screw (S) 3x6                   | Black                                 | 2        |
|             | 106      | _                            | _                                       |                                       |          |
|             | 107      | 473 8007 025                 | Cup Screw 3x8                           | 1                                     | 4        |
|             | 108      | 473 8007 009                 | Cup Screw 3x12                          |                                       | 11       |
|             | 109      | 477 0064 107                 | Fixing Screw                            |                                       | 18       |
|             | 110      | 477 0263 003                 | 3P. Swelling Screw                      |                                       | 6        |
|             | 111      | 473 7009 011                 | F.H.Tapping Screw(S)3x10                |                                       | 3        |
|             |          |                              |   |                                       |          |
|             |          |                              |   |                                       |          |

| PACKING AND ACCESSORIES (Not including EXPLODED VIE  201   |                                | Remarks     | Part Name   | Part No.   | Ref. No.  |
|--|--------------------------------|-------------|---|--|---|
| 202 505 9102 019 Poly Cover  203 503 0915 306 Cushion Ass'y  204 501 1685 011 Carton Case  205 GEN 2284-3 Envelope Sub Ass'y  205-2 511 2512 009 Inst.Manual  Battery R6P/AA | EW)                            | EXPLODED VI | SSORIES (Not including  | NG AND ACCE  | PACKII  |
| 206  | EW)  1 1 1 1 1 1 1 1 2 1 1 2 2 | EXPLODED VI | SSORIES (Not including Styrene Paper Poly Cover Cushion Ass'y Carton Case Envelope Sub Ass'y Envelope Inst.Manual Battery Remote Controller Stylene Paper | NG AND ACCE 504 9102 029 505 9102 019 503 0915 306 501 1685 011 GEN 2284-3 505 8006 019 511 2512 009 499 0267 001 504 0092 060 | PACKII  201 202  203  204  205  205-1 205-2 205-5 206 207 |

### NOTE FOR PARTS LIST

- Part indicated with the mark " " are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- $\bullet$  Part indicated with the mark "  $\bigstar$  " is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/6W, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

  WARNING:

Parts marked with this symbol 🐧 law have critical characteristics.

Use ONLY replacement parts recommended by the manufacturer.

# REMOTE CONTR OL UNIT ASS'Y (RC-163)

### PARTS LIST OF EXPLODED VIEW

| Ref. No.  | Part No.             | Part Name                         | Remarks       |               | Ref. No. | Part No.     | Part Name         | Remarks | Q'ty |
|-----------|----------------------|-----------------------------------|---------------|---------------|----------|--------------|-------------------|---------|------|
| SEMICON   | DUCTORS              | ROUP                              |               |               | 1        | 9H3 1000 145 | Case Top Ass'y    |         | 1    |
|           |                      |                                   |               | -             | 2        | 9H3 1000 148 | IR Filter         |         | 1    |
|           | 9H3 1000 1 57        | IC μPD17203AGC-701                | μ-Com         |               | 3        | 9H3 1000 149 | Switch Rubber     |         | 1    |
|           | 9H3 1000 1 58        | IC RH5VA20AA                      | VOL. Detector |               | 4        | 9H3 1000 150 | Switch Button     |         | 1    |
|           |                      | ·                                 |               | 1             | 5        | 9H3 1000 130 | Case Bottom Ass'y |         | 1    |
|           | 9H3 1000 070         | Transistor 2SC3443BF/BG           | Chip          | 1             |          | 1            |                   |         | 1    |
|           | 9H3 1000 070         | Transistor 2SC2982B/C             | Chip          | 1             | 6        | _            | Tapping Screw 2×6 |         | 1    |
|           | 3110 1000 070        |                                   | 1             |               | 7        | -            | Tapping Screw 2×5 |         | 1    |
|           | 0110 1000 000        | LED TLR124                        | Visible-Red   | - 1           | 8        | _            |                   |         |      |
|           | 9H3 1000 028         |                                   |               | - 1           | 8        | 9H3 1000 151 | Spring Coil       |         | - 1  |
|           | 9H3 1000 1 31        | LED SE1003-C                      | Infrared      | - 1           | .9       | 9H3 1000 152 | Spring Coil       |         | 1    |
| 5         | 9H3 1000 <b>08</b> 7 | Diode 1SS281 (1)                  |               | 1             | 10       | 9H3 1000 153 | Spring Coil       |         | 1    |
| ;         | 9H3 1000 <b>02</b> 9 | Diode PH310                       | Photo-PIN     | - 1           | 11       | 9H3 1000 147 | Cover Battery     |         | 1    |
| ,         | 9H3 1000 071         | Diode DA119/DA118                 | Chip          |               | 13       | 9H3 1000 125 | Poly Cover        | 100×300 | 1    |
|           |                      | Diode 1SS196                      |               |               |          |              |                   | 1000000 | 18   |
|           |                      |                                   |               |               | 14       | 9H3 1000 156 | P.W.Unit Ass'y    |         |      |
|           |                      |                                   |               |               | 15       | _            | Label             | 0 0     | 1    |
| SISTO     | RS GROUP             |                                   |               |               | 16       | _            | Sheet             | -       | 1    |
| ,         | 247 0006 988         | Chip Resistor 560ohm, 1/10W       | RM73B561J     |               |          |              |                   | 1       |      |
| ,2        | 247 0000 909         | Chip Resistor 2.2ohm, 1/10W       | RM73B2R2J     |               | 1        |              | 8=                |         |      |
| ļ         |                      | Chip Resistor 220ohm, 1/10W       | RM73B221J     | 1             | 1        |              |                   |         |      |
| 3         | 247 0005 989         |                                   |               | - 1           | 1        |              |                   |         |      |
| '         | 247 0012 927         | Chip Resistor 100kohm, 1/10W      | RM73B104J     | !             |          |              |                   |         |      |
| }         | 247 0012 9 14        | Chip Resistor 91kohm, 1/10W       | RM73B913J     |               |          |              |                   |         |      |
| )         | 247 0009 901         | Chip Resistor 4.7kohm, 1/10W      | RM73B472J     | - 1           |          |              |                   |         |      |
| 10        | 247 0012 901         | Chip Resistor 82kohm, 1/10W       | RM73B823J     | l             |          |              |                   |         |      |
| 111       | 247 0009 969         | Chip Resistor 8.2kohm, 1/10W      | RM73B822J     |               |          |              |                   | 0       |      |
| 112       | 247 0011 902         | Chip Resistor 33kohm, 1/10W       | RM73B333J     | 1             |          |              |                   |         |      |
| R13       | 247 0011 902         | Chip Resistor 4.7kohm, 1/10W      | RM73B472J     | į             | 1        |              | 1                 |         |      |
| 3         | 24/ 0009 901         | Cinp Houston - Trinolini, 1710tt  |               | 1             | 1        |              |                   |         |      |
| 1         | 247 0018 905         | Chip Resistor 0ohm, 1/10W         | RM73B0R0K     |               |          |              |                   |         |      |
|           |                      |                                   | <u> </u>      |               |          |              |                   |         |      |
| APACIT    | ORS GROU             | 1                                 | T             |               |          |              |                   |         |      |
|           | 254 4213 034         | Electrolytic 100µF/6.3V           | CE04W0J101M   |               |          |              |                   |         |      |
| 2         | _                    | Chip Ceramic 0.33µF/25V           | CK73F1E334Z   | - 1           |          |              |                   |         |      |
| 3         | 254 4213 021         | Electrolytic 47µF/6.3V            | CE04W0J470M   | 1             |          |              |                   |         |      |
|           | 257 0014 935         | Chip Ceramic 0.1µF/25V            | CK73F1E104Z   |               |          |              |                   |         |      |
| C4        | 257 0014 935         | Chip Ceramic 33PF/50V             | CK73SL1H330J  | - 1           |          |              |                   | 1       |      |
| C5,6      |                      |                                   | CK73F1E104Z   | J             |          |              |                   |         |      |
| 7         | 257 0014 935         | Chip Ceramic 0.1µF/25V            | 1             | - 1           |          |              |                   |         |      |
| 28        | 257 0004 961         | Chip Ceramic 100PF/50V            | CC73SL1H101J  | ľ             |          |              |                   |         |      |
|           | 1                    |                                   |               | Q'ty          |          | -            | 36                |         | 1 .  |
| THER 4    | SPOUD                |                                   |               |               |          | 1            |                   |         | 1 1  |
| THER      | GROUP                | (D)W D//                          |               |               |          |              | -                 | ,       |      |
|           | 1                    | (P.W. Board)                      | LAND COLUMN   | (1)           |          |              |                   | -       |      |
|           | 9H3 1000 088         | Ceramic Resonator                 | KBR4.0M503    | (1)<br>1      |          |              |                   |         |      |
| (1        | 1                    | Ceramic Resonator<br>Slide Switch | KBR4.0M503    | (1)<br>1<br>1 |          |              |                   |         |      |
| X1        | 9H3 1000 088         | Ceramic Resonator                 | KBR4.0M503    | (1)<br>1      |          |              |                   |         |      |
| K1        | 9H3 1000 088         | Ceramic Resonator<br>Slide Switch | KBR4.0M503    | (1)<br>1<br>1 |          |              |                   |         |      |
| K1        | 9H3 1000 088         | Ceramic Resonator<br>Slide Switch | KBR4.0M503    | (1)<br>1<br>1 |          | ,            |                   |         |      |
| :1        | 9H3 1000 088         | Ceramic Resonator<br>Slide Switch | KBR4.0M503    | (1)<br>1<br>1 |          |              |                   |         |      |
| :1        | 9H3 1000 088         | Ceramic Resonator<br>Slide Switch | KBR4.0M503    | (1)<br>1<br>1 |          |              |                   |         |      |
| K1        | 9H3 1000 088         | Ceramic Resonator<br>Slide Switch | KBR4.0M503    | (1)<br>1<br>1 |          |              |                   |         |      |
| (1        | 9H3 1000 088         | Ceramic Resonator<br>Slide Switch | KBR4.0M503    | (1)<br>1<br>1 |          |              |                   |         |      |
| X1        | 9H3 1000 088         | Ceramic Resonator<br>Slide Switch | KBR4.0M503    | (1)<br>1<br>1 | ·        |              |                   |         |      |
| X1        | 9H3 1000 088         | Ceramic Resonator<br>Slide Switch | KBR4.0M503    | (1)<br>1<br>1 |          | ,            |                   |         |      |
| (1        | 9H3 1000 088         | Ceramic Resonator<br>Slide Switch | KBR4.0M503    | (1)<br>1<br>1 |          |              |                   |         |      |
| X1        | 9H3 1000 088         | Ceramic Resonator<br>Slide Switch | KBR4.0M503    | (1)<br>1<br>1 | ·        |              |                   |         |      |
| <b>K1</b> | 9H3 1000 088         | Ceramic Resonator<br>Slide Switch | KBR4.0M503    | (1)<br>1<br>1 | ·        |              |                   |         |      |
| 1         | 9H3 1000 088         | Ceramic Resonator<br>Slide Switch | KBR4.0M503    | (1)<br>1<br>1 | ·        |              |                   |         |      |
| 1         | 9H3 1000 088         | Ceramic Resonator<br>Slide Switch | KBR4.0M503    | (1)<br>1<br>1 |          |              |                   |         |      |
| l         | 9H3 1000 088         | Ceramic Resonator<br>Slide Switch | KBR4.0M503    | (1)<br>1<br>1 |          |              |                   |         |      |
| l         | 9H3 1000 088         | Ceramic Resonator<br>Slide Switch | KBR4.0M503    | (1)<br>1<br>1 |          |              |                   |         |      |
|           | 9H3 1000 088         | Ceramic Resonator<br>Slide Switch | KBR4.0M503    | (1)<br>1<br>1 | ·        |              |                   |         |      |
|           | 9H3 1000 088         | Ceramic Resonator<br>Slide Switch | KBR4.0M503    | (1)<br>1<br>1 |          |              |                   |         |      |
|           | 9H3 1000 088         | Ceramic Resonator<br>Slide Switch | KBR4.0M503    | (1)<br>1<br>1 |          |              |                   |         |      |
|           | 9H3 1000 088         | Ceramic Resonator<br>Slide Switch | KBR4.0M503    | (1)<br>1<br>1 |          |              |                   |         |      |
| 1         | 9H3 1000 088         | Ceramic Resonator<br>Slide Switch | KBR4.0M503    | (1)<br>1<br>1 |          |              |                   |         |      |
|           | 9H3 1000 088         | Ceramic Resonator<br>Slide Switch | KBR4.0M503    | (1)<br>1<br>1 |          |              |                   |         |      |
| l         | 9H3 1000 088         | Ceramic Resonator<br>Slide Switch | KBR4.0M503    | (1)<br>1<br>1 |          |              |                   |         |      |
| X1<br>SW1 | 9H3 1000 088         | Ceramic Resonator<br>Slide Switch | KBR4.0M503    | (1)<br>1<br>1 |          |              |                   |         |      |

# **KEY LAYOUT (RC-163)**

| Transmitting direction (upper sid |     |     |     |  |  |  |  |  |
|-----------------------------------|-----|-----|-----|--|--|--|--|--|
| K65                               | K6  | K7  | К8  |  |  |  |  |  |
| K2                                | K1  | K4  | КЗ  |  |  |  |  |  |
| K9                                | K12 | K11 | K10 |  |  |  |  |  |
| K17                               | K18 | K19 | K20 |  |  |  |  |  |
| K25                               | K26 | K27 | K28 |  |  |  |  |  |
| K33                               | K34 | K35 | K36 |  |  |  |  |  |
| K41                               | K42 | K43 | K44 |  |  |  |  |  |
| K49                               | K50 | K51 | K52 |  |  |  |  |  |
| K57                               | K58 | K59 | K60 |  |  |  |  |  |
| K61                               | K62 | K63 | K64 |  |  |  |  |  |
| K53                               | K54 | K55 | K56 |  |  |  |  |  |
| K45                               | K46 | K47 | K48 |  |  |  |  |  |
| K37                               | K38 | K39 | K40 |  |  |  |  |  |
| K29                               | K30 | K31 | K32 |  |  |  |  |  |
| K21                               | K22 | K23 | K24 |  |  |  |  |  |
| K13                               | K14 | K15 | K16 |  |  |  |  |  |
| K5                                | K6  | K7  | K8  |  |  |  |  |  |

### NOTE FOR PARTS LIST

- Part indicated with the mark " " are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/6W, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.) **WARNING:**

Parts marked with this symbol 🛕 **Market** have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

